SMX-F30(0)/F33(2)/F34(0)BP
SMX-F30(0)/F33(2)/F34(0)LP
SMX-F30(0)/F33(2)/F34(0)RP
SMX-F30(0)/F33(2)/F34(0)SP

Memory Camcorder
user manual

imagine the possibilities

Thank you for purchasing a Samsung product.
To receive a more complete service, please
register your product at

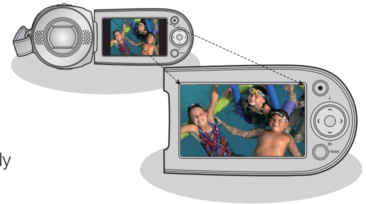
www.samsung.com/register

SAMSUNG

key features of your memory camcorder

High-resolution Colour Widescreen LCD (2.7" WIDE TFT LCD)

Samsung memory camcorder adopts 2.7-inch Widescreen LCD of 112k pixels which allows bright and clear monitoring. In addition, reinforced LCD Enhancer adjusting colour and brightness to the screen lighting conditions allows better monitoring under the strong sunlight.



H.264/AVC (MPEG4 part 10/Advanced Video Coding) Encoding

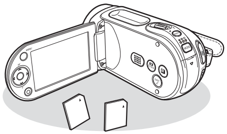
The latest video compression technology, H.264 uses a high compression rate to sharply increase the recordable time with the same size storage.

Simple & Easy User Interface

Designed to provide optimized and easy use with ergonomic design including customizable button layout for recording/playback functions and frequently used functions. And, improved Graphics User Interface offers new and fresh look as well as easy operation.

High-capacity embedded Flash Memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only))

The camcorder has built-in high capacity flash memory that allows you to record movie (or photo) images.



User-friendly Functions

User-friendly EASY Q optimizes your memory camcorder to the recording conditions automatically, which provides beginners with the best performance.

Twice the memory options

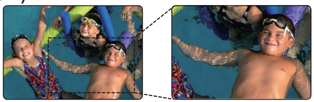
The memory camcorder's external memory slot accepts both high capacity SDHC and MMCplus. Play and transfer videos, quickly and easily using the memory type of your choice. In addition to this slot the memory camcorder has the built-in flash memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)) .

High-resolution image through Mobile DNIe

Samsung memory camcorder has features of 3DNR (3-dimensional noise reduction), high-sensitivity colour expression (intelligent colour expression), High performance Anti-Shake (Hyper DIS), and automatic face detection (Face Detection) etc.

Capture Visions farther than the eye can see (34x Optical/42x Intelli-zoom/1200x Digital Zoom)

Samsung's powerful optical zoom lenses bring the world closer without losing image quality. In addition, Digital Zoom Interpolation gives extreme digital zooming to be clearer, with less distortion than previous types of digital zooms.



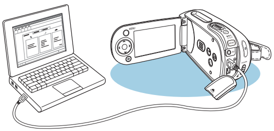
Various Recording Features

The memory camcorder supports Anti-Shake (HDIS), Digital Effect and a wide range of other functions that you can select according to the scene you are recording. ➥pages 57~72

Capturing Photo Image
Captures a moving subject instantly and saves the scene as a photo image. ➥page 48

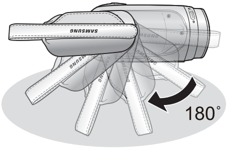
Easy Upload to YouTube
You can upload recorded movies to YouTube using the CyberLink MediaShow4. ➥page 98

Enjoying Various Playback Features
Unlike tape operation, playback is simple and easy in this memory camcorder since no time is needed for rewinding or fast forward operations. Various functions are available for enjoying many different types of playback. ➥pages 73~79

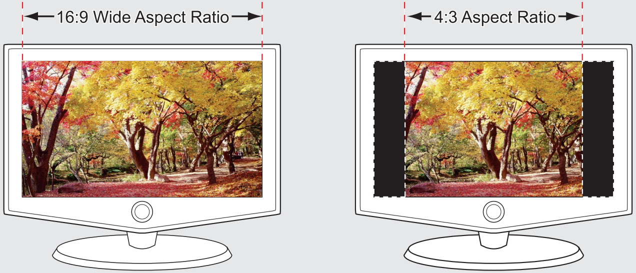


Play back on your PC
USB 2.0 enables the smooth transfer of movies (or photos) to a computer. With the bundled software you can easily transfer and play back your own movies on your PC. ➥page 97

Swivel handle for free style shooting (max 180 degree rotate)
No need to stand up and crouch to shoot your videos (or photos). This memory camcorder from Samsung has a new swivel handgrip. You can adjust the swivel handle's angle up to 180° to suit the recording situation. You can now shoot videos (or photos) freely from high angles to low angles while standing.



Flexible 4:3 & 16:9 recording and viewing
By offering a choice of recording in two different aspect ratios - 4:3 and 16:9, SAMSUNG ensures the entire image is captured for playback on everything from older TVs to your newest, wide-format TV screen.



safety warnings

What the icons and signs in this user manual mean :

WARNING	Means that death or serious personal injury is a risk.
CAUTION	Means that there is a potential risk for personal injury or material damage.
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your camcorder, follow these basic safety precautions:
	Means hints or referential pages that may be helpful when operating the camcorder.

These warning signs are here to prevent injury to you and others.
Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

precautions

Warning!

- This camcorder should always be connected to an AC outlet with a protective grounding connection.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

BEFORE USING THIS CAMCORDER

- **This memory camcorder is designed exclusively for high-capacity built-in flash memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)) and external memory card.**
- **This memory camcorder records video in H.264/AVC (MPEG4 part 10/Advanced Video Coding) format compliant with Standard resolution (SD-VIDEO) format.**
- **Please be noted that this memory camcorder is not compatible with other digital video formats.**
- **Before recording important video, make a trial recording.**
  - Play back your trial recording to make sure the video and audio have been recorded properly.
- **The recorded contents cannot be compensated for:**
  - Samsung cannot compensate for any damages caused when recording is not made normally or recorded contents cannot be played back because of a defect in the memory camcorder, card.
    Also, Samsung cannot be responsible for your recorded video and audio.
  - Recorded contents may be lost due to an error when handling this memory camcorder or memory card, etc. Samsung shall not be held responsible for the loss of recorded contents, and cannot compensate for any damages.
- **Make a backup of important recorded data**
  - Protect your important recorded data by copying the files to a PC. It is recommended to copy it from your PC to other recording media for storage. Refer to the software installation and USB connection guide.
- **Copyright: Please be noted that this memory camcorder is intended for an individual consumer's use only.**
  - Data recorded on the card in this memory camcorder using other digital/analogue media or devices is protected by the copyright act and cannot be used without permission of the owner of copyright, except for personal enjoyment. Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand.

precautions on use

IMPORTANT NOTE

- **Handle the liquid crystal display (LCD) with care:**
  - The LCD is a very delicate display device: Do not press its surface with excessive force, hit it or prick it with a sharp object.
  - If you push the LCD surface, unevenness in display may occur. If unevenness does not disappear, turn the camcorder off, wait for a few moments, and then turn it on again.
  - Do not place the camcorder with the open LCD screen down.
  - Close the LCD monitor when not using the camcorder.
- **Liquid crystal display:**
  - The LCD screen is a product of high precision technology. Out of the total pixels (approx. 112,000 pixels of an LCD monitor), 0.01% or less pixels may be out (black dots) or may remain lit as coloured dots (red, blue, and green). This shows the limitations of the current technology, and does not indicate a fault that will interfere with recording.
  - The LCD screen will be slightly dimmer than usual when the camcorder is at low temperature, as in cold areas, or right after the power is turned on. Normal brightness will be restored when the temperature inside the camcorder rises. Note that the foregoing phenomena have no effect on the image in a storage media, so there is no cause for concern.
- **Hold the memory camcorder correctly:**
  - Do not hold the memory camcorder by the LCD monitor when lifting it: the LCD monitor could detach and the memory camcorder may fall.
- **Do not subject the memory camcorder to impact:**
  - This memory camcorder is a precision machine. Take great care that you do not strike it against a hard object or let it fall.
  - Do not use the memory camcorder on a tripod in a place where it is subject to severe vibrations or impact.
- **No sand or dust!**
  - Fine sand or dust entering the memory camcorder or AC power adaptor could cause malfunctions or defects.
- **No water or oil!**
  - Water or oil entering the memory camcorder or AC power adaptor could cause electric shock, malfunctions or defects.
- **Heat on surface of product:**
  - The surface of the memory camcorder will be slightly warm when using, but this does not indicate a fault.

- **Be careful of unusual ambient temperature:**
  - Using the memory camcorder in a place where the temperature is over 140°F (40°C) or lower than 32°F (0°C) may result in abnormal recording/playback.
  - Do not leave the memory camcorder on a beach or in a closed vehicle where the temperature is very high for a long time: This could cause malfunctions.
- **Do not point directly at the sun:**
  - If direct sunlight strikes the lens, the memory camcorder could malfunction or a fire could occur.
  - Do not leave the memory camcorder with the LCD screen exposed to direct sunlight: This could cause malfunction.
- **Do not use the memory camcorder near TV or radio:**
  - This could cause noise to appear on the TV screen or in radio broadcasts.
- **Do not use the memory camcorder near strong radio waves or magnetism:**
  - If the memory camcorder is used near strong radio waves or magnetism, such as near a radio wave tower or electric appliances, noise could enter video and audio that are being recorded. During playback of normally recorded video and audio, noise may also be present in picture and sound. At worst the memory camcorder could malfunction.
- **Do not expose the memory camcorder to soot or steam:**
  - Thick soot or steam could damage the memory camcorder case or cause malfunctions.
- **Do not use the memory camcorder near corrosive gas:**
  - If the memory camcorder is used in a place where there is dense exhaust gas generated by gasoline or diesel engines, or corrosive gas such as hydrogen sulphide, the external or internal terminals could corrode, disabling normal operation, or the battery connection terminals could corrode, so that power will not turn on.
- **Do not use the memory camcorder near ultrasonic humidifier:**
  - Calcium and other chemicals dissolved in water could scatter in the air, and white particles could adhere to the optical head of the memory camcorder, which could cause it to operate abnormally.
- **Do not clean the memory camcorder body with benzene or thinner:**
  - The coating of exterior could peel off or the case surface could deteriorate.
  - When using a chemical cleaning cloth, follow the instructions.
- **Keep the memory card out of reach of children to prevent swallowing.**
- **To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.**

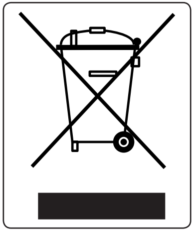
precautions on use

ABOUT THIS USER MANUAL

- SMX-F33(2)BP/LP/RP/SP and SMX-F34(0)BP/LP/RP/SP models support built-in flash memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)).
- Illustrations of SMX-F34(0)BP model are used in this user manual.
- The displays in this user manual may not be exactly the same as those you see on the LCD screen.
- Designs and specifications of storage media and other accessories are subject to change without any notice.

NOTES REGARDING A TRADEMARK

- All the trade names and registered trademarks mentioned in this manual or other documentation provided with your Samsung product are trademarks or registered trademarks of their respective holders.
- Windows® is registered trademark or trademark of Microsoft Corporation, registered in the United States and other countries.
- Macintosh is trademark of Apple Inc.
- All the other product names mentioned here in may be the trademark or registered trademarks of their respective companies.
- Furthermore, “TM” and “R” are not mentioned in each case in this manual.



Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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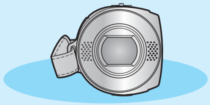
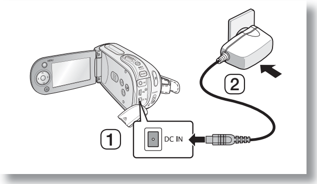
introduction to basic features



✪ This chapter introduces you to the basic features of your memory camcorder. See the reference pages for more information.

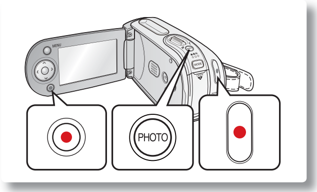
Step1: Preparation

- Connecting a power source ➥page 14
- Check out the storage media ➥page 39
- Setting the Date/Time and OSD Language ➥pages 36, 38



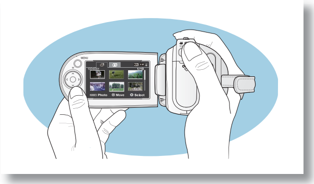
Step2: Recording

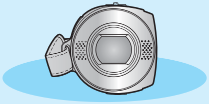
- Recording movie or photo images ➥pages 46, 48



Step3: Playing back

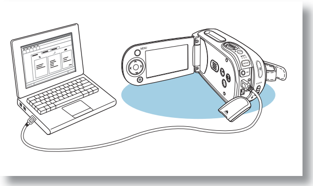
- Selecting an image to play back from the thumbnail index views using **Control** button ➥page 51
- Viewing playback from your memory camcorder on your PC or TV ➥pages 94-97, 99-101





✪ This chapter introduces you to the basic features of your memory camcorder. See the reference pages for more information.

Step4: Connecting to a PC



- You can playback and edit recorded movies (or photos) by using the CyberLink MediaShow4 application provided with the product.
  Also, using the CyberLink MediaShow4 allows easy upload of recorded movies to YouTube (YouTube).

Step5: Easy Upload to YouTube

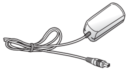
- You can upload recorded movies to YouTube using the CyberLink MediaShow4. ➥page 98

WHAT'S INCLUDED WITH YOUR MEMORY CAMCORDER

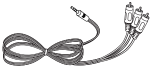
Your new memory camcorder comes with the following accessories. If any of these items is missing from your box, call Samsung's Customer Care Centre.

✪ **The exact shape of each item may vary by model.**

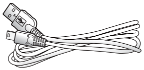
Battery pack
(IA-BP85ST)



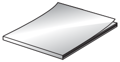
AC power adaptor
(AA-E9 type)



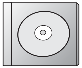
Audio/Video Cable



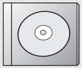
USB Cable



Quick start guide

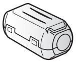


User manual CD



Software CD*

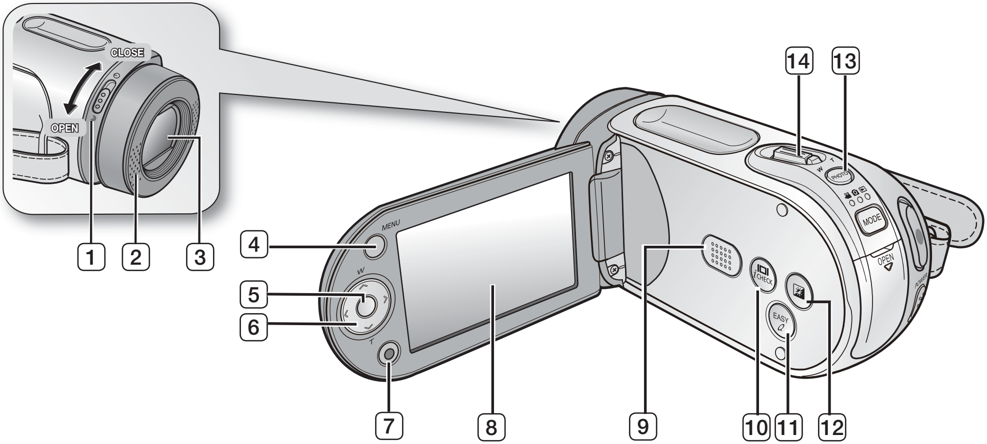
Carrying Case*



Core filter

- The contents may vary depending on the sales region.
- Parts and accessories are available at your local Samsung dealer. To buy this one, contact your nearest Samsung dealer.
- A memory card is not included. See page 40 for memory cards compatible with your camcorder.
- You have to connect the AC power adaptor to the cradle when connecting external devices using the cradle.
- Your camcorder includes user manual CD and quick start guide(printed). For more detailed instructions, refer to the user manual (PDF) on the provided CD.
- * : This is an optional accessory. To buy one, contact your nearest Samsung dealer.

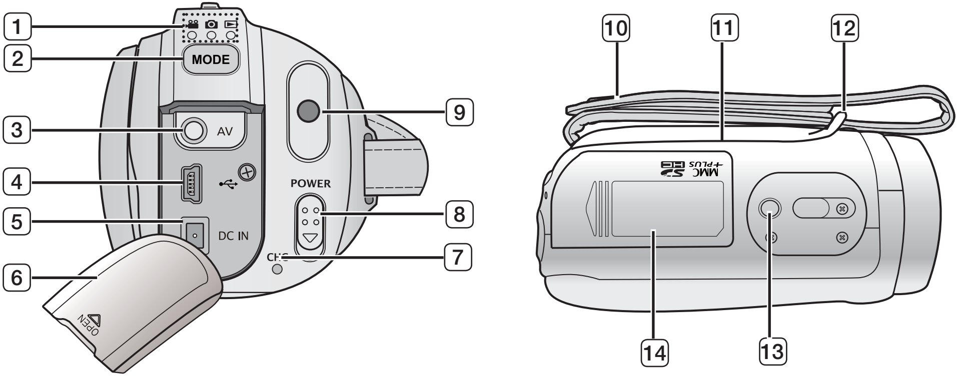
FRONT & LEFT VIEW



1	Lens open/close switch	8	LCD screen
2	Internal microphone	9	Built-in speaker
3	Lens	10	IOI / iCHECK button
4	MENU button	11	EASY Q button
5	OK button	12	LCD ENHANCER ( ) button
6	Control button (∧/∨/</>/W/T)	13	PHOTO button
7	Recording start/stop button	14	Zoom lever (W/T)

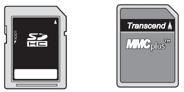
CAUTION Be careful not to cover the internal microphone and lens during recording.

REAR & BOTTOM VIEW



①	MODE indicator (Movie ( ) / Photo ( ) / Play ( ))
②	MODE button
③	AV cable jack (AV)
④	USB jack ( )
⑤	DC IN jack (DC IN)
⑥	Jack cover
⑦	Charging indicator (CHG)
⑧	POWER switch
⑨	Recording start/stop button
⑩	Grip belt
⑪	Swivel Hand-grip
⑫	Grip belt hook
⑬	Tripod receptacle
⑭	Memory card /Battery slot cover

Usable Memory Cards (16GB Max)



SDHC MMCplus

preparation

This section provides information that you should know before using this memory camcorder such as how to use the provided accessories, how to charge the battery, how to setup the operation mode and initialize setup.

USING THE ACCESSORIES

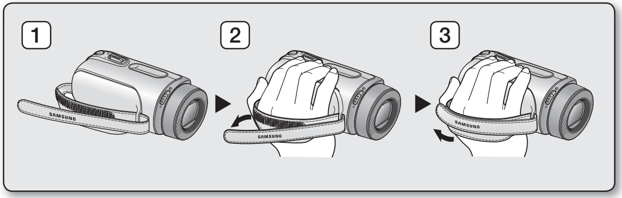
Attaching a Grip Belt

- Insert your right hand from the bottom of memory camcorder up to the base of your thumb.
- Put your hand in a position where you can easily operate the **Recording start/stop** button, **PHOTO** button and the **Zoom** lever.
- Adjust the length of grip belt so that the memory camcorder is stable when you press the **Recording start/stop** button with your thumb.

1. Detach the belt.

2. Adjust the length of grip belt.

3. Attach the belt.

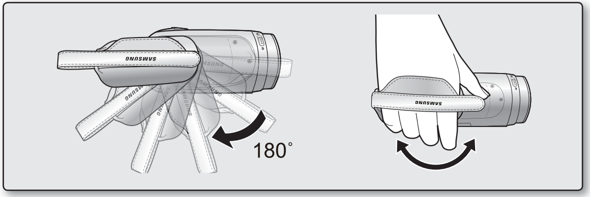


USING THE ACCESSORIES

Angle Adjustment

This memory camcorder has a new swivel handgrip.
Its handle turns along with the shooting angle.
You can now shoot videos (or photos) freely from high angles to low angles while standing.

- Rotate the swivel hand-grip at the most convenient angle.
- You can rotate it downward up to 180 degrees.



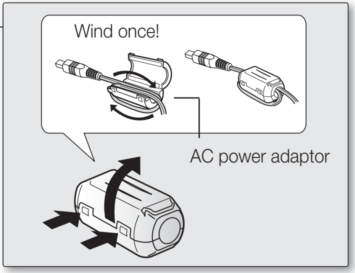
CAUTION
Please be noticed that using excessive force to insert your hand while the hand strap is adjusted too tight may damage the hand strap hook of the memory camcorder.

Please be careful not to turn the swivel handle backward as it may cause damage.

ATTACHING THE CORE FILTER

To reduce electrical interference, attach the core filter to the AC power adaptor.

- To attach the core filter to power adapter, roll the cable over core filter once.
- Be careful not to damage the cable when attaching the core filter.



CONNECTING A POWER SOURCE

- There are two types of power source that can be connected to your memory camcorder.
- Do not use provided power supply units with other equipment.
  - The battery pack: used for outdoor recording.
  - The AC power adaptor : used for indoor recording and playing back. ➥page 21

Battery Pack installation / ejection

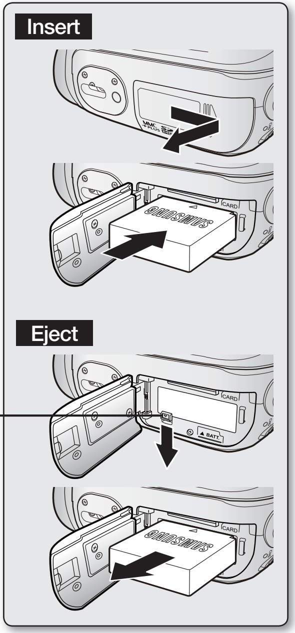
It is recommended you purchase one or more additional battery packs to allow continuous use of your memory camcorder.

Inserting the battery pack

1. Slide and open the battery slot cover as shown in the diagram.
2. Insert the battery pack into the battery slot until it softly clicks.
   - Make sure that the SAMSUNG logo is facing up while the set is placed as shown in the diagram.
3. Slide and close the battery slot cover.

Ejecting the battery pack

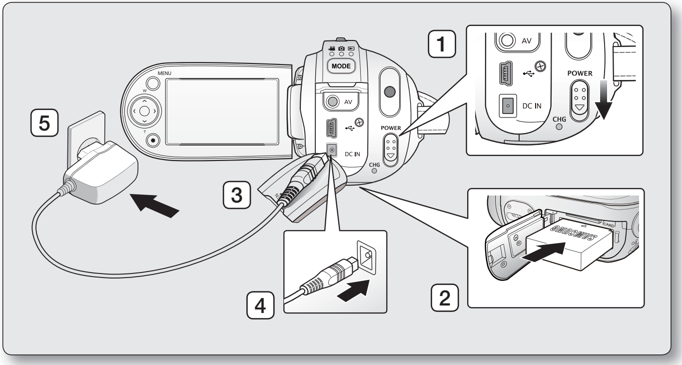
1. Slide and open the battery slot cover and push the battery lock.
   - Gently push the battery lock in the direction as shown in the diagram to eject the battery out.
2. Pull the ejected battery out in the direction as shown in the diagram.
3. Slide and close the battery slot cover.



- Store the battery pack separated from the memory camcorder while not in use.
- It is recommended to prepare an additional battery pack for prolonged outdoor use.
- Contact your nearest Samsung Electronics Service Centre for purchasing additional battery pack.

Charging the Battery Pack

- Be sure to charge the battery pack before you start using your memory camcorder.
- Use **IA-BP85ST** battery pack only.
- The battery pack may be charged a little at the time of purchase.



1. Slide the **POWER** switch downward to turn off the power.
2. Insert the battery pack to the memory camcorder. ➥page 14
3. Open the DC IN/USB/AV jack cover.
4. Connect the AC power adaptor to the DC IN jack of your memory camcorder.
5. Connect the AC power adaptor to a wall socket.
   - The CHG (charging) indicator lights up in orange and showing that the battery pack is charging.
   - The CHG (charging) indicator lights up in green when the battery is fully charged. ➥page 16
6. When the battery pack is fully charged, disconnect the AC power adaptor from the memory camcorder.
   - Even with the power switched off, the battery pack will still discharge if it is left attached to the memory camcorder. It is recommended that you remove the battery pack from the memory camcorder.

CAUTION

- Charging the battery pack in a low temperature circumstance may take longer time or fail to fully charge (green indicator will not turn on).
- Please make sure that there are no foreign substances in plug and socket when you connect AC power supply to the memory camcorder.
- Fully charge the battery pack before using.
- When using the AC power supply, place it close to the wall outlet. Found with malfunction while in use of memory camcorder, separate the AC power supply immediately from the wall outlet.
- Do not use the AC power supply in a narrow and small place, such as between furnishings.

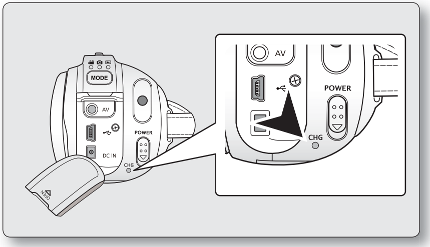
- For recording indoors with available wall outlet, it is convenient to use the AC power supply instead of the battery pack.
- It is recommended to charge the battery pack in a place with ambient temperature of 10°C ~ 30°C.

Charging indicator

Tips for battery identification

✪ The colour of the LED indicates charging status.

- If the battery has been fully charged, the charge indicator is green.
- If you are charging the battery, the colour of the charge indicator is orange.
- If an error occurs while the battery pack in charging, the charging indicator blinks red.

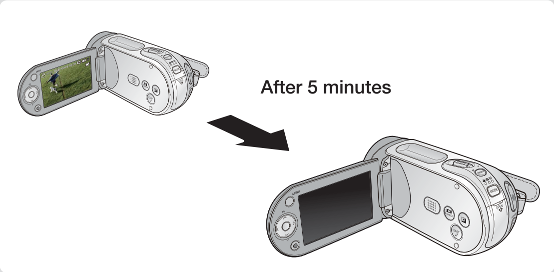


<Charging indicator>

Charging state	Power		Charge		
	On (Mode Select)	Off	Charging	Fully Charged	Error
LED colour	Blue	-	Orange	Green	Red (Flicker)

Auto Power Off Function

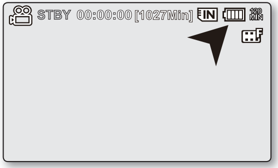
To save battery power, you can set the **"Auto Power Off"** function which turns off the memory camcorder if there is no operation for 5 minutes. To disable this option, change the setting of **"Auto Power Off"** to **"Off".** ➥page 88



Battery Level Display

The Battery Level Display shows the amount of battery power remaining in the battery pack.

Battery Level Indicator	State	Message
	Fully charged	-
	20~40% used	-
	40~60% used	-
	60~80% used	-
	80~99% used	-
	Exhausted (flickers): The device will soon turn off. Change the Battery Pack as soon as possible.	-
-	(flickers): The device will be forced to turn off after 5 seconds.	**"Low battery"**



- Before using memory camcorder, charge the battery.
- Above figures are based on fully charged battery pack at a normal temperature. Low ambient temperature may affect the use time.

Charging, recording and playback times with fully charged battery pack (with no zoom operation, etc.)

- For your reference, the approximate time with fully charged battery pack:

<table>
<tr><th colspan="2">Battery type</th><th colspan="4">IA-BP85ST</th></tr>
<tr><th colspan="2">Charging time</th><td colspan="4">approx. 2 hr.</td></tr>
<tr><th colspan="2" rowspan="2">Movie resolution</th><td colspan="3">720 x 576 (50i)</td><td>640 x 480</td></tr>
<tr><th>TV Super Fine</th><th>TV Fine</th><th>TV Normal</th><th>Web & Mobile</th></tr>
<tr><th rowspan="2">Mode</th><th>Continuous recording time</th><td>approx. 180min.</td><td>approx. 180min.</td><td>approx. 180min.</td><td>approx. 180min.</td></tr>
<tr><th>Playback time</th><td>approx. 300min.</td><td>approx. 300min.</td><td>approx. 300min.</td><td>approx. 300min.</td></tr>
</table>

- The time is only for reference. Figures show above are measured under Samsung's test environment, and may differ from users and conditions.
- We recommend using AC power adaptor when you are using the Time Lapse REC Function.

Continuous Recording (without zoom)

The continuous recording time of memory camcorder in the table shows the available recording time when the memory camcorder is in the recording mode without using any other function after recording started. When actually recording, the battery pack may discharge 2-3 times faster than this reference since the record start/stop and zoom functions are being operated, and playback is performed. Prepare additional charged battery pack(s) to allow the time you are planning to record on the memory camcorder. Note that the battery pack discharges faster in cold environment.

The charging time will vary depending on the remaining battery level.

About battery packs

- The benefits of battery pack: Battery pack is small but has a large power capacity. It should be recharged in any environment that is between 32°F (0°C) and 104°F (40°C).
  However, when it is exposed to cold temperatures (below 32°F (0°C)), its usage time becomes reduced and it may cease to function. If this happens, place the battery pack in your pocket or other warm, protected place for a short time, then reattach it to the memory camcorder.
- The continuous recording times in the operating instructions are measured using a fully charged battery pack at 77 °F (25 °C). As the environmental temperature and conditions vary, the remaining battery time may differ from the approximate continuous recording times given in the instructions.

On handling a battery pack

- To preserve battery power, keep your memory camcorder turned off when you are not operating it.
- To save battery power, you can set the **"Auto Power Off"** function which turns off the memory camcorder if there is no operation for 5 minutes. To disable this option, change the setting of **"Auto Power Off"** to **"Off"** ➥page 88
- Do not allow metallic objects to come into contact with the terminals.
- Make sure that the battery pack fits firmly into place. Do not drop the battery pack.
  Dropping the battery pack may cause damage.
- Be careful to keep the battery pack out of the reach of children. It is a choking hazard, if swallowed.
- Frequent use of the LCD screen or using the fast forward or rewind buttons wears out the battery pack faster.
- Remove the battery pack from the camcorder for safekeeping after using your memory camcorder.
- Leaving the battery pack for extended period of time may discharge the battery pack completely.
  - A battery pack which is completely discharged may not turn on the recharging LED during charging.
    It is designed to protect the battery pack, if the recharging LED turns on normally within 5 minutes, use the battery pack as normal.

Maintaining the battery pack

- We recommend only using the original battery pack that is available from your Samsung retailer. When the battery reaches the end of its life, please contact your local dealer. The batteries have to be dealt with as chemical waste.
- Clean the terminals to remove any foreign substances before inserting the battery.
- Do not put the battery pack near any heat source (i.e. fire or a heater).
- Do not disassemble, apply pressure to, or heat the battery pack.
- Do not allow the + and - terminals of the battery pack to be short-circuited.
  It may cause leakage, heat generation, induce overheating or fire.
- Do not expose the battery pack to water. The battery pack is not water resistant.
- When fully discharged, a battery pack damages the internal cells.
  The battery pack may be prone to leakage when fully discharged.
- Remove from charger or powered unit when not in use. Even when the power is switched off, the battery pack will still discharge if it is left attached to the memory camcorder.
- When not using the memory camcorder for an extended period:
  It is recommended that you fully charge the battery pack once per 6 months, attach it to memory camcorder and use it up: then remove the battery pack and store it in a cool place again.

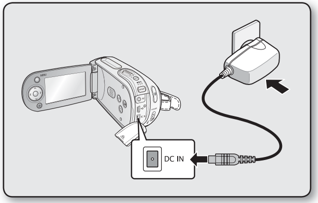
About the battery life

- Battery capacity decreases over time and through repeated use. If decreased usage time between charges becomes significant, it is probably time to replace it with a new one.
- Each battery's life is governed by storage, operating and environmental conditions.

Use only approved battery packs. Do not use batteries from other manufacturers.
Otherwise, there is a danger of overheating, fire or explosion.
Samsung is not responsible for problems occurring due to using unapproved batteries.

Using a household power source

Make the same connections as you do when charging the battery pack.
The battery pack will not lose its charge in this case.



Using memory camcorder with AC power adaptor

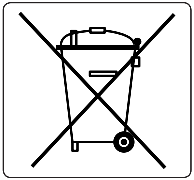
It is recommended that you use the AC power adaptor to power the memory camcorder from a household AC outlet when you perform settings on it, play back, or use it indoors.

- Make the same connections as you do when charging the battery pack. ➥page 15

- Be sure to use the specified AC power adaptor to power the memory camcorder. Using other AC power adaptors could cause electric shock or result in fire.
- The AC power adaptor can be used around the world. An AC plug adaptor is required in some foreign countries. If you need one, purchase it from your distributor.

CAUTION

- Before detaching the power source, make sure that the memory camcorder's power is turned off. Failure to do so can result in memory camcorder malfunction.
- Use a nearby wall outlet when using the AC power adaptor. Disconnect the AC power adaptor from the wall outlet immediately if any malfunction occurs while using your memory camcorder.
- Do not use the AC power adaptor in a narrow space, such as between a wall and furniture.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

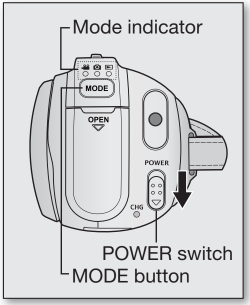
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

preparation

BASIC OPERATION OF YOUR MEMORY CAMCORDER

This section explains the basic techniques of recording movie or photo images and also basic settings on your memory camcorder.
Set the appropriate operation mode according to your preference using **POWER** switch and **MODE** button.



Turning memory camcorder on or off

You can turn the power on or off by sliding the **POWER** switch down.

- Slide the **POWER** switch repeatedly to toggle the power on or off.

Setting the operating modes

- You can switch the operating mode in the following order each time you press the **MODE** button.
  - Movie Record mode ( ) ➔ Photo Record mode ( ) ➔ Play mode ( )
- To switch between video and photo thumbnails in the Video/Photo Play mode,press the MENU button and use the control button to select “Play Mode”->”Video”or”Photo”.Setting the Play Mode menu is available in thumbnail view only.

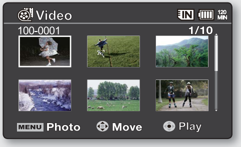
Movie Record mode ( )

To record movie images.
➥page 46

Photo Record mode ( )

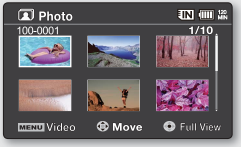
To record photo images.
➥page 48

Movie Play mode ( )



To play movie images.
➥page 51

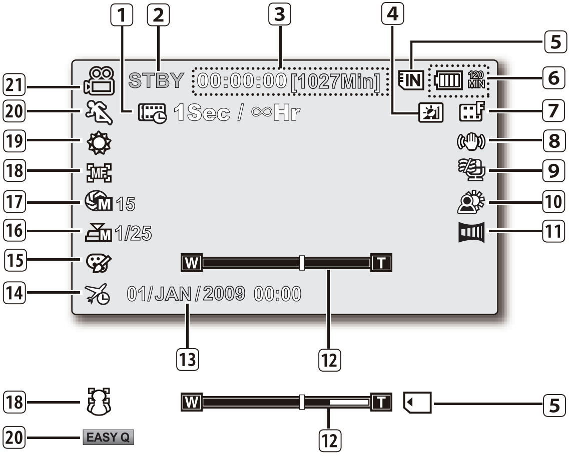
Photo Play mode ( )



To play photo images.
➥page 54

- When the memory camcorder is turned on, the self-diagnosis function operates and a message may appear. In this case, refer to "Warning indicators and messages" (on pages 106-108) and take corrective action.
- Movie Record is set by default with the power on.

LCD SCREEN INDICATORS

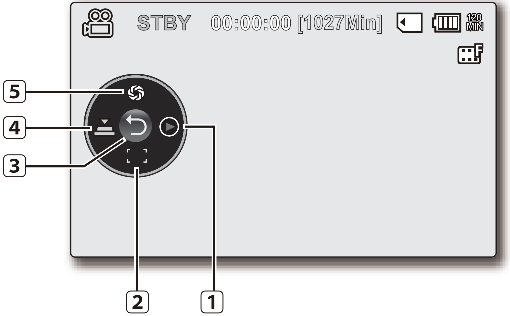


Movie Record mode

1	Time Lapse REC *
2	Operating status ([STBY] (standby) or [●] (recording))
3	Time counter (movie recording time: remaining recordable time)
4	LCD Enhancer *
5	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
6	Battery info. (Remaining battery level/time)
7	Movie image resolution
8	Anti-Shake (HDIS)
9	Wind Cut
10	Back Light
11	Fader *
12	Zoom (Optical zoom/Intelli-zoom / Digital zoom)
13	Date/Time
14	Time Zone
15	Digital Effect
16	Manual Shutter */ C.Nite *
17	Manual Exposure *
18	Manual Focus * / Face Detection *
19	White Balance
20	iSCENE / EASY Q *
21	Movie Record

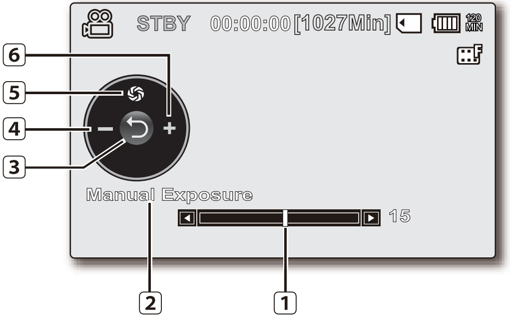
- The above screen is an example for explanation: It is different from the actual display.
- The OSD indicators are based on memory capacity of 2GB (SDHC memory card).
- Functions marked with * won't be kept when the memory camcorder restarts.
- For enhanced performance, the display indications and the order are subject to change without prior notice.

LCD SCREEN INDICATORS



Movie Record mode: Shortcut menu (OK Guide)

1	Quick View*
2	Focus* (Auto Focus/Face Detection/Manual Focus)
3	Shortcut menu (OK Guide) / Return
4	Shutter* (Auto Shutter / Manual Shutter)
5	Exposure* (Auto Exposure / Manual Exposure)



Movie Record mode: Shortcut menu (Manual)

1	Manual Control Bar/ Value
2	Menu name
3	Shortcut menu (OK Guide) / Return
4	Value adjust (down)
5	Manual Exposure
6	Value adjust (up)

- The illustration to the left shows the Manual Exposure screen.
- Functions marked with * won’t be kept when the memory camcorder restarts.
- Shortcut menu (OK guide) represents the most frequently accessed functions according to the selected mode. Pressing the **OK** button will display shortcut menu of frequently used on the LCD screen.

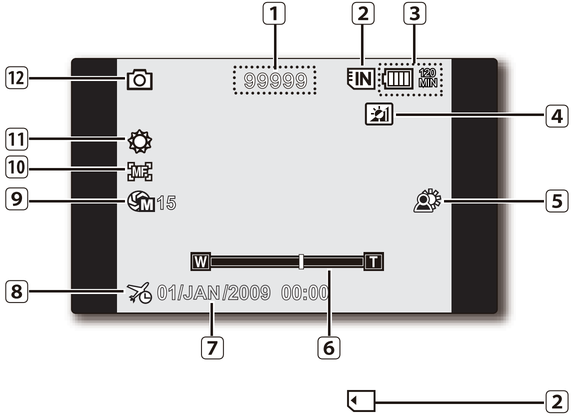


Photo Record mode

1	Image counter (total number of recordable photo images)
2	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
3	Battery info. (Remaining battery level/time)
4	LCD Enhancer *
5	Back Light
6	Zoom (Optical zoom)
7	Date/Time
8	Time Zone
9	Manual Exposure *
10	Manual Focus *
11	White Balance
12	Photo record mode

The counter value is calculated from the remaining free space of the storage media, which may not be updated after a recording if calculation remains the same.

LCD SCREEN INDICATORS

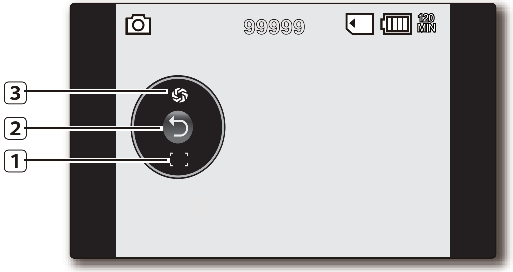


Photo Record mode: Shortcut menu (OK Guide)

1	Exposure* (Auto Exposure / Manual Exposure)
2	Shortcut menu (OK Guide) / Return
3	Focus* (Auto Focus/Face Detection/Manual Focus)

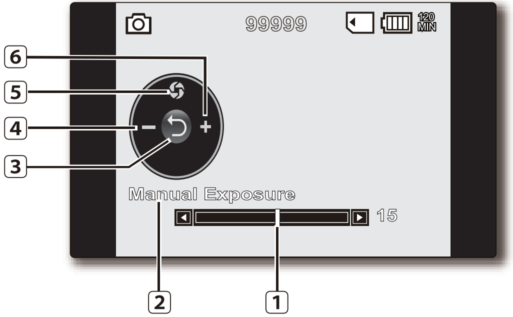
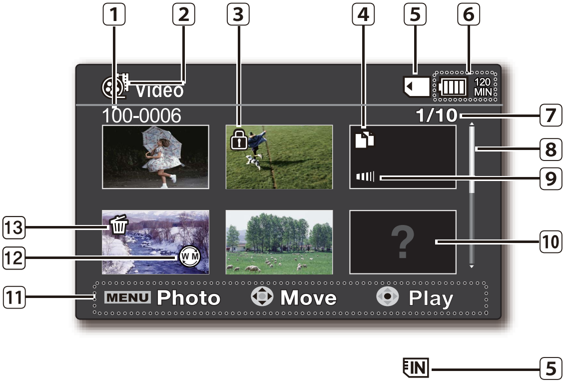
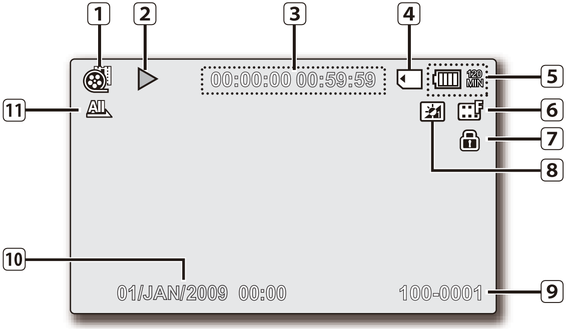


Photo Record mode: Shortcut menu (Manual)

1	Manual Control Bar/ Value
2	Menu name
3	Shortcut menu (OK Guide) / Return
4	Value adjust (down)
5	Manual Exposure
6	Value adjust (up)

- The illustration to the left shows the Manual Exposure screen.
- Functions marked with * won’t be kept when the memory camcorder restarts.
- Shortcut menu (OK guide) represents the most frequently accessed functions according to the selected mode. Pressing the **OK** button will display shortcut menu of frequently used on the LCD screen.





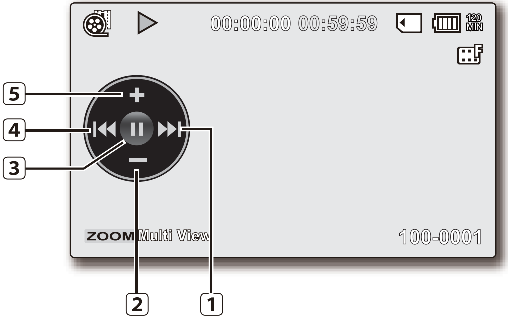
Movie Play mode : Thumbnail View

1	Folder-File Number
2	Movie Play Tab
3	Protect
4	Copy Selected
5	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
6	Battery info. (Remaining battery level/time)
7	Now/ Total file number
8	Scroll bar
9	Fader
10	Error File
11	Button Guide
12	Web & Mobile
13	Delete Selected

Movie Play mode : Single View

1	Movie Play mode
2	Play Status (Play (▶) / Pause (⏸))
3	Time code (Elapsed time / Recorded time)
4	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
5	Battery info. (Remaining battery level/time)
6	Movie image resolution
7	Protect
8	LCD Enhancer
9	File Name
10	Date/Time
11	Play Option

LCD SCREEN INDICATORS



Movie Play mode : Shortcut menu (OK Guide)

1	Move to next file / FF (fast forward) ➥page 53
2	Volume Down
3	Play Status (Play (▶) / Pause (❚❚))
4	Move to previous file / REW (rewind) ➥page 53
5	Volume Up

Movie Play mode : Single (Volume)

1	Date/Time
2	Volume Bar

Photo Play mode : Thumbnail View

1	Folder-File Number
2	Protect
3	Photo Play Tab
4	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
5	Battery info. (Remaining battery level/time)
6	Now/ Total file number
7	Scroll bar
8	Copy Selected
9	Error File
10	Button Guide
11	Delete Selected

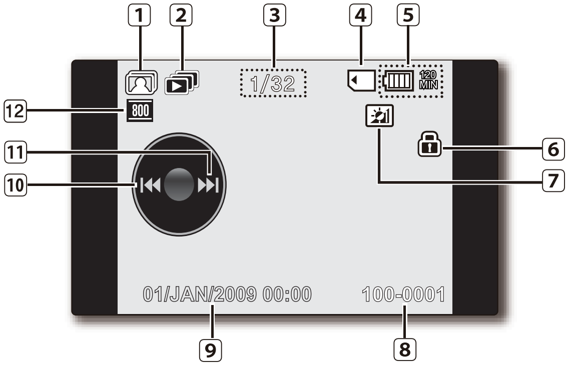


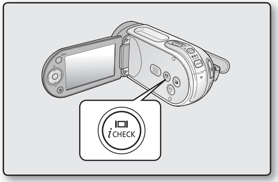
Photo Play mode : Single View

1	Photo Play mode
2	Slide Show
3	Image counter (current image / total number of recorded images)
4	Storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
5	Battery info. (Remaining battery level/time)
6	Protect
7	LCD Enhancer
8	File name (file number)
9	Date/Time
10	OK Guide (Previous image)
11	OK Guide (Next image)
12	Photo image resolution

TURNING THE SCREEN INDICATORS ON/OFF (▭ / iCHECK)

Switching the information display mode

- You can switch the display mode of on-screen information:
  Press the ▭ / iCHECK button while the camcorder is on.
  The full and minimum display modes will alternate.
- **Full display mode**: All types of information will appear.
  Minimum display mode: The only operating status indicator will appear.

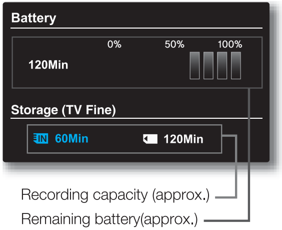


If the memory camcorder has warning information, a warning message will appear.

Checking the remained battery and memory capacity

Without turning the camcorder on,you can check the remaining battery time and memory capacity.

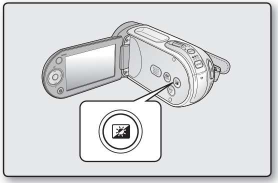
- When the camcorder is turned off (battery is installed) press and release the ▭ / iCHECK button to display the remaining capacity of the battery capacity.
- When the camcorder is turned on (battery is installed) press and hold the ▭ / iCHECK button for more than 2-3 seconds to display the remaining battery capacity.
- The approximate recordable time in the selected storage and battery information appear for about 10 seconds.
- Selected storage media is indicated in green, and **"No Card"** appears if there is no memory card is inserted.
- Pressing the ▭ / iCHECK button or any other button in battery information screen will return to the previous screen.



- Battery information is only available if the battery is inserted.
  While connected to AC adaptor without battery inserted, **"No Battery"** message appears.
- It also displays cautions and notices according to the state.
- ▭ / iCHECK button does not operate in menu and quick menu screen.

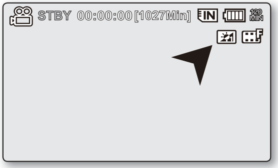
USING THE LCD ENHANCER FUNCTION

- Contrast is enhanced for a clear and bright image.
  This effect is also implemented outdoors in bright daylight.
- You can also adjust the screen brightness in two-level increments, which provides a brighter screen than using just one-level increment for your recording.



1. Press the **LCD ENHANCER** ( ) button.
- LCD adjust ( ) indicator appears and the LCD brightens.

2. You can switch the LCD enhancer function in the following order each time you press the **LCD ENHANCER** ( ) button.

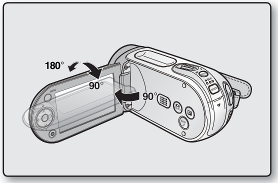


Release →LCD enhancer 1level ( ) →LCD enhancer 2level ( ) → Release

- LCD enhancer **1**level ( ): LCD enhancer is executed.
- LCD enhancer **2**level ( ): You can make a brighter-screen than using just one-level adjustment.

- LCD enhancer function does not affect the quality of the image being recorded.
- When LCD enhancer works at the low illumination, some stripes may occur on the LCD screen. It is not a malfunction.
- Using the LCD Enhancer function may cause colour looks different on the display.

ADJUSTING THE LCD SCREEN

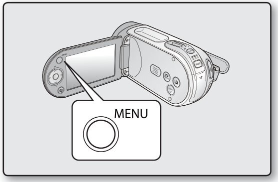


1. Open up the LCD screen 90 degrees with your finger.
2. Rotate it to the best angle to record or play.
   - If you rotate the LCD screen 180 degrees to the lens side, you can close the LCD screen with it facing out. This is convenient during playback.

- See page 87 to adjust brightness and colour of the LCD screen.
- Over-rotation may cause damage to the inside of the hinge that connects the LCD screen to the memory camcorder.

WARNING: Do not lift the memory camcorder when holding the LCD screen.

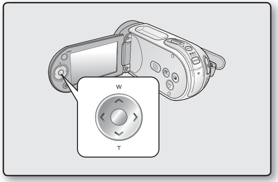
USING THE MENU BUTTON



1. Set the desired mode by pressing the **MODE** button.
2. Press the **MENU** button.
3. Move the cursor by pressing the **Control** button (∧/∨/</>) to select desired menu item, and then press **Control** button **OK** to confirm.
4. Press the **MENU** button to finish.

MENU button does not operate in the EASY Q mode.

USING THE CONTROL BUTTONS

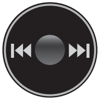


Used for playback, pausing, fast forwarding, and rewinding. Also used as directional buttons (up, down, left, right) and to make a selection when selecting movie or photo images or menus.

1. Press the **Control** button (< />) to move left / right.
2. Press the **Control** button (∧/∨) to move up / down.
   - Confirm your selection by pressing the **OK** button.

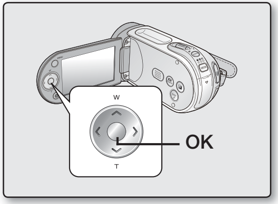
- **Control** button (**OK** / (< / >)) does not operate in the EASY Q mode.
- Using the **OK** button, you may directly access the shortcut menu. ➥page 34

Using the Control button

Button	Movie Record( )mode / Photo Record( )mode	Play ( ) mode		Menu selection
		Movie Play ( ) mode	Photo Play ( ) mode	
OK	- Access the shortcut menu - Confirm selection - Exit the shortcut menu	- Shortcut menu (OK guide) is displayed - Playback / Pause	Single image playback 	Confirms selection
UP	Zoom (wide)	Increases the volume	-	Moves the cursor up
DOWN	Zoom (tele)	Decreases the volume	-	Moves the cursor down
LEFT	-	- **Search playback RPS** (Reverse Playback Search) rate: x2→x4→x8→x16 - **Previous Skip Playback**	Previous image	Moves to the previous menu
RIGHT	-	- **Search playback FPS** (Forward Playback Search) rate: x2→x4→x8→x16 - **Next Skip Playback** - **Frame-by-frame playback** - **Slow motion playback** (Slow Motion Playback Rate: x1/2→x1/4→x1/8→x1/16)	Next image	Moves to the next menu

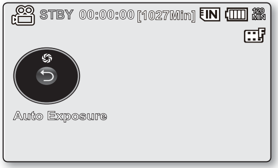
SHORTCUT MENU (OK GUIDE)

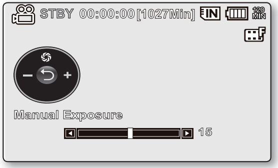
Shortcut menu (OK guide) represents the most frequently accessed functions according to the selected mode.

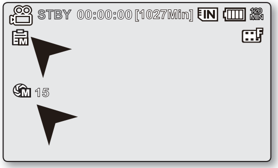


✪ For example: Setting the Exposure in Movie Record mode by the Shortcut menu (OK guide).

1. Press the **OK** button.
   - Shortcut menu (OK guide) is displayed.
2. Press the **Control** button (∧) will display the Auto Exposure shortcut menu screen, where you can press **OK** button to set up Auto Exposure.
3. Press the **Control** button (∧) once again will display the Manual Exposure shortcut menu screen with a manual control bar, where you can adjust the value press the **Control** button (< / >).
4. Press the **OK** button to confirm your selection.
   - Manual Exposure indicator (M 15) will display on the screen.
   - Press the **OK** button to exit the shortcut menu.







- Shortcut menu (OK guide) cannot be used in EASY Q mode.
- Pressing the **Control** button for each menu will toggle **"Auto"** or **"Manual"**.
- The illustration to the shows the Movie Record mode.
  Before selecting a menu item, set the mode (Movie Record / Photo Record) first. ➥page 22

Shortcut function using the Control buttons

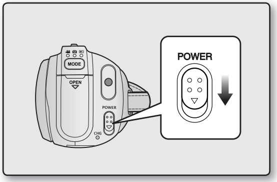
Button	Movie Record ( ) mode	Photo Record ( ) mode	Play ( ) mode	
			Movie Play ( ) mode	Photo Play ( ) mode
OK	- Access the shortcut menu - Confirm selection - Exit the shortcut menu		- Shortcut menu (OK guide) is displayed - Playback / Pause	Single image playback
UP	**Exposure** - Auto - Manual		Increases the volume	-
DOWN	**Focus** - Auto - Face Detection - Manual		Decreases the volume	-
LEFT	**Shutter** - Auto - Manual	-	- **Search playback RPS** (Reverse Playback Search) rate: x2→x4→x8→x16 - **Previous Skip Playback**	Previous image
RIGHT	**Quick View**		- **Search playback FPS** (Forward Playback Search) rate: x2→x4→x8→x16 - **Next Skip Playback** - **Frame-by-frame playback** - **Slow motion playback** (Slow Motion Playback Rate: x1/2→x1/4→x1/8→x1/16)	Next image

INITIAL SETTING : TIME ZONE, DATE AND TIME & OSD LANGUAGE

- Initial setting is available in all operating modes.
- To read the menus or messages in your desired language, set the OSD language.
- To store the date and time during recording, set the time zone and date/time.

Turning the power on and setting the date and time

Set the date and time when using this memory camcorder for the first time.
If you do not set date and time, the date and time (time zone) screen appears every time you turn on your memory camcorder.



1. Slide **POWER** switch downward to turn on the camcorder.
   When you turn on your camcorder for the first time, the Time Zone screen appears based on Lisbon, London.
   - You can also set the Time Zone ("Home") from the **"Settings"** menu. ➥page 84

2. Select the your geographical area with **Control** button (< / >), then press **OK** button.
   - The Date/Time Set screen appears.
3. Set the day with **Control** button (∧ / ∨), then move it next with **Control** button (< / >).
4. Set month, year, hour and minute (AM/PM) in the same way, then move it next with **Control** button (< / >).

5. Set DST set ( ) with **Control** button (∧ / ∨).
   - Set the icon( ) to on to move the time forward 1 hour.
     (DST set: daylight saving time)
6. Make sure that the clock is correctly set, then press **OK** button.
   - The clock starts.
   - You can set any year up to the year 2037.

- **On charging the built-in rechargeable battery**
  The built-in rechargeable battery is automatically charged while the camcorder is turned on.
  Use your camcorder after charging the built-in rechargeable battery. If the built-in rechargeable battery is not charged, any input data will not be backed up and the date/time appears on the screen as **"01/ JAN/ 2009 00:00"** (when **"Date/Time"** display is set to **"On"**).
- After setting, the date and time are automatically recorded on a special data area of the storage media.

Turning the date and time display on/off

- To switch the date and time display on or off, access the menu and change the Date/Time mode. ➥page 86

Simple setting of the clock by time difference

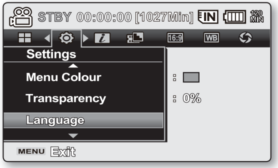
- You can easily set the clock to the local time by setting a time difference when using your memory camcorder abroad. Select **"Time Zone"** on the menu, then set the time difference. ➥page 84

INITIAL SETTING : TIME ZONE, DATE AND TIME & OSD LANGUAGE

Selecting the OSD language

You can select the desired language to display the menu screen and the messages.

1. Set the **"Settings"** mode.
   - The settings menu screen appears.
   - Refer to "How to set the settings mode" for accessing to **"Settings"** mode. ➥page 80



2. Press the **Control** button (∧ / ∨) to select **"Language"**, and then press the **OK** button.

3. Press the **Control** button (∧ / ∨) to select the desired OSD language, and then press the **OK** button.
   - English / 한국어/ Français / Deutsch / Italiano / Español / Português / Nederlands / Svenska / Suomi / Norsk / Dansk / Polski / Čeština / Slovensky / Magyar / limba română / Български / Ελληνικά / српски / Hrvatski / Українська / Русский / 中文 / ไทย / Türkçe / فارسي/ العربية/ IsiZulu

4. Press the **MENU** button to exit the menu.
   - The OSD language is refreshed in the selected language.

- Even if the battery pack or AC power are removed, the language setting will be preserved.
- **"Language"** options may be changed without prior notice.

about the storage media

SELECTING THE STORAGE MEDIA

- You can record on the built-in memory or a memory card, so you should select the desired storage media before starting recording or playback.
- You can use SDHC and MMCplus cards on your memory camcorder. (Some cards are not compatible depending on the memory card manufacturer and memory card type.)
- Before inserting or ejecting the memory card, turn the memory camcorder off.

Selecting the storage media

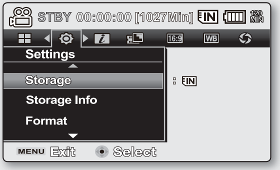
1. Press the **MENU** button.
- The menu list will appear.

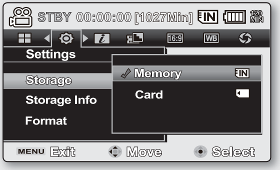
2. Press the **Control** button (< / >) to select "**Settings**".

3. Press the **Control** button (∧ / ∨) to select **"Storage"**, then press the **OK** button.

4. Press the **Control** button (∧ / ∨) to select **"Memory"** or **"Card"**, then press the **OK** button.
- **"Memory"**: When using the built-in memory.
- **"Card"**: When using the memory card.

5. Press the **MENU** button to exit.





Using the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only))

- Because this memory camcorder has an embedded 8GB or 16GB memory, it is not necessary to buy extra storage media. So you can make recording/playback more convenient.

Using a memory card (not supplied)

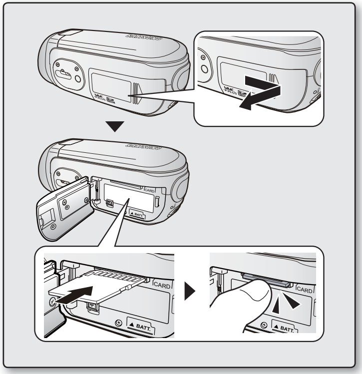
- This memory camcorder has multi card slot for access to SDHC (Secure Digital High Capacity) and MMCplus.
- You can use SDHC and MMC plus card on your memory camcorder.
  - Some cards are not compatible depending on the memory card manufacturer and memory card type.

- Never format the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card using a PC.
- If you insert a memory card when the memory camcorder is on, the pop-up message will prompt you automatically to select the storage type.
- If there is no memory card inserted, only the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) will be available.
- Do not eject a memory card while it is being used in the camcorder. The memory card and its data may be damaged.
- Do not remove the power (battery pack or AC power adaptor) when accessing storage media such as recording, playback, format, delete, etc. The storage media and its data may be damaged.

INSERTING / EJECTING THE MEMORY CARD

Inserting a memory card

1. Turn the memory camcorder off.
2. Slide the memory card slot cover to the right to open the cover.
3. Insert the memory card into the memory card slot until it softly clicks in the direction of the arrow shown in the diagram.
4. Close the cover.



Ejecting a memory card

1. Turn the memory camcorder off.
2. Slide the memory card slot cover to the right to open the cover.
3. Slightly push the memory card inwards to pop it out.
4. Pull the memory card out of the memory card slot and close the cover.

CAUTION

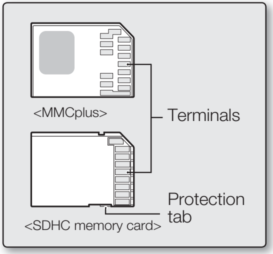
As shown in the diagram, slide the memory card inwards facing the label down.
In case the label of a memory card faces up sliding into the slot, the memory camcorder may not work, or the tip of the memory card can be damaged.

about the storage media

SELECTING A SUITABLE MEMORY CARD

A memory card is a compact portable storage media with a data capacity that exceeds the capacity of a floppy disk.

- **You can use a SDHC memory card and MMC plus.**
  (If needed, buy a memory card separately.)
  - You can also use a SD memory card, but recommended that you use a SDHC memory card and MMC plus with your memory camcorder.
    (SD memory cards over 2GB are not compatible with this memory camcorder.)
- **On this memory camcorder, you can use memory cards (SDHC or MMCplus) of the following capacity: 512MB ~ 16GB**
- **Compatible recording media**
  - The following recording media have been guaranteed to work with this memory camcorder. Others are not guaranteed to work, so buy such products with caution.
    SDHC or SD memory cards: By Panasonic, SanDisk, and TOSHIBA
    MMC plus: By Transcend
- If other media are used, they may fail to record data correctly, or they may lose data that has already been recorded.
- For movie recording, use a memory card that support faster write speed (at least 2MB/sec).



<Usable Memory Cards>
(512MB ~16GB)

SDHC (Secure Digital High Capacity) Memory Card

- SDHC memory card complies with new SD specification Ver.2.00.
  This latest specification was established by SD Card Association to realize data capacity over 2GB.
- The SDHC memory card supports a mechanical write protection switch. Setting the switch prevents accidental erasure of files recorded on the SDHC memory card. To enable writing, move the switch up to the direction of terminals. To set write protection, move the switch down.
- Due to change In File Allocation System and physical specifications, SDHC memory card can not be used with current SD enabled host devices. SDHC memory card can be used with only SDHC enables host devices which carry SDHC logo on devices its self or on its operation manual.

MMCplus (Multi Media Card plus)

- In the case of MMCplus, they have no protection tab so please use the protect function in the menu.

Common cautions for memory card

- Damaged data may not be recovered. It is recommended you make a back-up of important data separately on the hard disk of your PC.
- Turning the power off or removing a memory card during operation such as formatting, deleting, recording, and playback may cause the data loss.
- After you modify the name of a file or folder stored in the memory card using your PC, your camcorder may not recognise the modified file.

Handling a memory card

- It is recommended that you power off before inserting or removing the memory card to avoid data loss.
- It is not guaranteed that you can use a memory card formatted by other devices. Be sure to format your memory card using this camcorder.
- You have to format newly-purchased memory cards, memory cards with data that your camcorder cannot recognise or are saved by other devices. Note that formatting erases all data on the memory card.
- If you cannot use a memory card that has been used with another device, format it with your memory camcorder. Note that formatting erases all information on the memory card.
- A memory card has a certain life span. If you cannot record new data, you have to purchase a new memory card.
- A memory card is a precision electronic media. Do not bend it, drop it, or cause a strong impact.
- Do not use or store in a place that has high temperature and humidity or dusty environment.
- Do not place foreign substances on the memory card terminals. Use a soft dry cloth to clean the terminals if required.
- Do not paste anything other than exclusive label on label pasting portion.
- Be careful to keep memory card out of the reach of children, who might swallow it.

about the storage media

The memory camcorder supports SDHC and MMCplus memory cards for data storage.

- The data storage speed may differ, according to the manufacturer and production system.
- The user using a lower write speed memory card for recording a movie may have difficulties storing the movie on the memory card. You can even lose your movie data during the recording.
- In an attempt to preserve any bit of the recorded movie, the memory camcorder forcibly stores the movie on the memory card and displays a warning: **"Low Speed Card. Please record a lower resolution."**

To facilitate movie recording, you are recommended to use a memory card that supports faster write speed.

- If you are unavoidably using a low speed memory card, resolution of the recording may be lower than the set value. ➥page 66
  However, the higher the resolution, the more memory will be used.
- You can have four resolution options to record a movie with the memory camcorder :
  "TV Super Fine", "TV Fine", "TV Normal", "Web&Mobile"
- **For optimal performance of the memory camcorder, ensure that you purchase a fast speed memory card.**

Actual formatted capacity may be less as the internal firmware uses a portion of the memory.

- Samsung is not responsible for data loss due to misuse.
- We recommend using a memory card case to avoid losing data from moving and static electricity.
- After a period of use, the memory card may get warm. This is normal and is not a malfunction.

RECORDABLE TIME AND CAPACITY

- The following shows the memory camcorder's maximum recording time and number of images according to the resolution / memory capacity.
- For recording movie and photo images, be noticed with the approximate maximum limits.

Recordable time for movie images

Media		built-in memory		Memory Card				
Capacity		8GB	16GB	1GB	2GB	4GB	8GB	16GB
TV Super Fine ( )	720x576(50i)	approx. 190min.	approx. 380min.	approx. 23min.	approx. 47min.	approx. 95min.	approx. 190min.	approx. 380min.
TV Fine ( )	720x576(50i)	approx. 240min.	approx. 480min.	approx. 30min.	approx. 60min.	approx. 120min.	approx. 240min.	approx. 480min.
TV Normal ( )	720x576(50i)	approx. 310min.	approx. 620min.	approx. 38min.	approx. 77min.	approx. 155min.	approx. 310min.	approx. 620min.
Web & Mobile ( )	640x480	approx. 460min.	approx. 920min.	approx. 57min.	approx. 115min.	approx. 230min.	approx. 460min.	approx. 920min.

Recordable number of photo images

Media		built-in memory		Memory Card				
Capacity		8GB	16GB	1GB	2GB	4GB	8GB	16GB
TV Super Fine ( )	800x600	approx. 15,000	approx. 31,000	approx. 1,800	approx. 3,600	approx. 7,500	approx. 15,000	approx. 31,000

1GB= 1,000,000,000bytes : actual formatted capacity may be less as the internal firmware uses a portion of the memory.

about the storage media

- The previous figures are measured under Samsung's standard recording test conditions and may differ depending on the test or use condition.
- The memory camcorder provides four resolution options for movie recordings:
  - **"TV Super Fine", "TV Fine", "TV Normal", "Web&Mobile"**.
    For a same scene, higher resolution setting will retain the better image with bigger data size in the order of **"TV Super Fine", "TV Fine", "TV Normal", "Web&Mobile"**.
- The compression rate increases while lowering the resolution (in the order of **"TV Super Fine", "TV Fine", "TV Normal", "Web&Mobile"**). The higher the compression rate is, the picture resolution is more deteriorated but the recording time will be increased.
- The compression rate automatically adjusts to the recording image, and the recording time may vary accordingly.
- **You can use a SDHC or MMCplus memory card on your memory camcorder.**
  Some cards may not compatible depending on the memory card manufacturer and memory card type.
- Proper operation is not guaranteed for those memory cards that are not formatted by this memory camcorder.
  Perform the formatting directly on the memory camcorder for formatting.
- To facilitate the movie recording, it is recommended to use a memory card that supports faster write speed. (Write speed: 2MB / sec or higher) If you use a low write-speed memory card, recording may stop with a message of **"Low speed card. Please record a lower resolution".**
- It supports proper operation with up to **16GB** of memory card for recording / playback.
  Memory cards of bigger than **16GB** in capacity may not work properly.
- The memory card that is used to store a movie can cause unwritable area, which may result in reduced recording time and free memory space.
- The maximum size of a movie (H.264/AVC) file that can be recorded at one time is 1.8GB.
- You can store up to 9999 movie and photo images on one memory card using the memory camcorder.
- Movie (or photo) images recorded by other equipment are not playable on this memory camcorder.

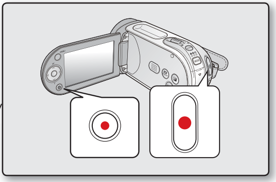
recording

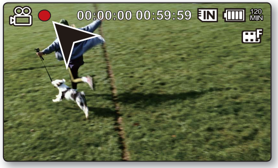
Basic procedures to record a movie or photo image are described below and on the following pages.

RECORDING MOVIE IMAGES

- You can record movie images in Movie Record mode only. ➥page 22
- Memory camcorder provides two **Recording start/stop** buttons. One is on the rear side of the camcorder and the other one is on the LCD panel. Select the **Recording start/ stop** button according to the use.

1. Turn the memory camcorder on.
   - Connect a power source to the memory camcorder. ➥pages 14, 21 (A battery pack or an AC power adaptor)
   - Slide the **POWER** switch downward to turn on the power. ➥page 22
   - Set the appropriate storage media. ➥page 39 (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
   - Set the Lens open/close switch to open ( ). ➥page 10
   - Movie Record is the default mode when you turn on the memory camcorder.





2. Check the subject on the LCD screen.

3. Press the **Recording start/stop** button.
   - The recording indicator (●) will display and recording will start.
   - Pressing the **Recording start/stop** button again during recording will set the memory camcorder to recording pause mode.

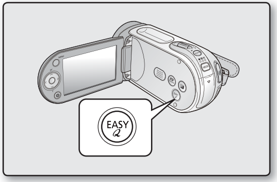
4. When recording is finished, turn the memory camcorder off.

- For on-screen information display. ➥page 23
- Eject the battery pack when you have finished recording to prevent unnecessary battery power consumption.
- For approximate recording time. ➥page 44
- For various functions available when you record movie images. ➥pages 57~72
- If focusing is difficult, use the manual focus function. ➥page 63
- During recording, some button operations are unavailable. (**MODE** button, **MENU** button, etc.)
- Sound is recorded from the internal stereo microphone on the front of the memory camcorder. Take care that this microphone is not blocked.
- Before recording an important movie, make sure to test on the recording function to check if there is any problem with the audio and video recording.
- While recording, don't insert or eject the memory card as it may record noise.
- Do not operate the power switch or remove the memory card while accessing the storage media. Doing so may damage the storage media or the data on storage media.

- You can not use a locked memory card for recording. You will see a message saying recording is disabled due to the lock.
- You can select the resolution of movie images to be recorded. ➥page 66
- Note that power failure during a recording such as disconnected DC power jack or exhausted battery may damage the file.

RECORDING WITH EASE FOR BEGINNERS (EASY Q MODE)

- You can record movie images in Movie Record mode only. ➥page 22
- With the EASY Q function, most of the memory camcorder settings are automatically adjusted, which frees you from detailed adjustments.



1. Slide the **POWER** switch downward to turn on the memory camcorder.
2. Press the **MODE** button to set Movie Record mode ( ). ➥page 22
3. Press the **EASY Q** button.
   - When you press the **EASY Q** button, most functions turn off and the following functions are set to **"Auto"**. (Exposure, Focus, Shutter, etc.)
   - The EASY Q and **Anti-Shake(HDIS)** ( ) indicator appear on the screen at the same time.
4. To record movie images, press the **Recording start/stop** button.
   - Recording will begin using the basic automatic settings.

To cancell EASY Q mode

Press the **EASY Q** button again.

- The EASY Q and **Anti-Shake (HDIS)** ( ) indicators disappear from the screen.
- Almost all the settings will return to the settings that were set prior to activating the EASY Q mode.

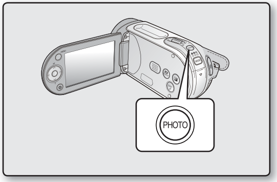
Unavailable buttons during EASY Q operation

- The following button and menu operations are unavailable because the items are automatically set. And the corresponding message **"Release the EASY Q"** may appear if unavailable operations are attempted.
  - **MENU** button / **OK** button / etc.
- Cancel the EASY Q function if you want to add any effect or settings to the images.
- EASY Q mode settings are released when the memory camcorder is turned off.
- EASY Q mode automatically sets the **"Anti-Shake(HDIS)"** to **"On"** while using EASY Q.
- You can directly select iSCENE mode pressing **EASY Q** button for 3 second. ➥page 58

TAKING PHOTO IMAGES

- You can take photo images in Photo Record mode only. ➥page 22
- You can take photo images with the **PHOTO** button.

1. Turn the memory camcorder on.
   - Connect a power source to the memory camcorder. ➥pages 14, 21 (A battery pack or an AC power adaptor)
   - Slide the **POWER** switch downward to turn on the power.
   - Set the Lens open/close switch to open ( ). ➥page 10



2. Press the **MODE** button to set Photo Record mode ( ). ➥page 22
   - Set the appropriate storage media. ➥page 39 (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)

3. Check the subject on the LCD screen.

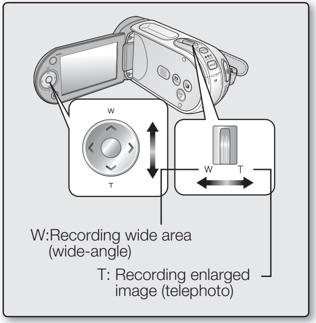
4. Press the **PHOTO** button.
   - Shutter sound is heard. Indicators on the screen disappear, and the photo image is recorded.
   - While saving the photo image on the memory card, you cannot proceed with the next recording.

5. When taking photo images is finished, turn the memory camcorder off.

- The photo image is taken only in the 4:3 aspect ratio as shown in the illustration.
- Audio will not be recorded with the photo image on the storage media.
- If focusing is difficult, use the manual focus function. ➥page 63
- Do not operate the **POWER** switch or remove the memory card while accessing the storage media. Doing so may damage the storage media or the data on storage media.
- Photo image files recorded by your memory camcorder conform to the “DCF (Design rule for Camera File system)” universal standard established by the JEITA (Japan Electronics and Information Technology Industries Association).
- DCF is an integrated image-file format for digital cameras: Image files can be used on all digital devices conforming to DCF.
- The recorded photo image size is 800X600.
- In Movie Record mode ( ), pressing **PHOTO** button will switch to Photo Record mode ( ).

ZOOMING IN AND OUT

Use the zoom function for close-up or wide-angle recording.
This memory camcorder allows you to record using optical 34x power zoom,42x intelli-zoom and 1200x digital zoom.



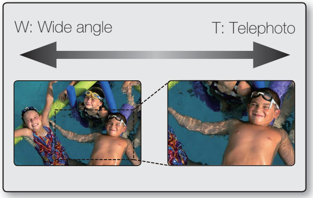
- You can zoom with the zoom lever or the **Control** (W/T) button on the LCD panel.
- Zoom magnification over 34x is done through digital image processing, and is therefore called digital zoom. Digital zooming is possible up to 1200x. Set **"Digital Zoom"** to **"On"**. ➥page 72

To zoom in

- Slide the Zoom lever towards **T** (telephoto).
  (Or press the **Control** button (∨) on the LCD panel.)

To zoom out

- Slide the Zoom lever towards **W** (wide-angle).
  (Or press the **Control** button (∧) on the LCD panel.)



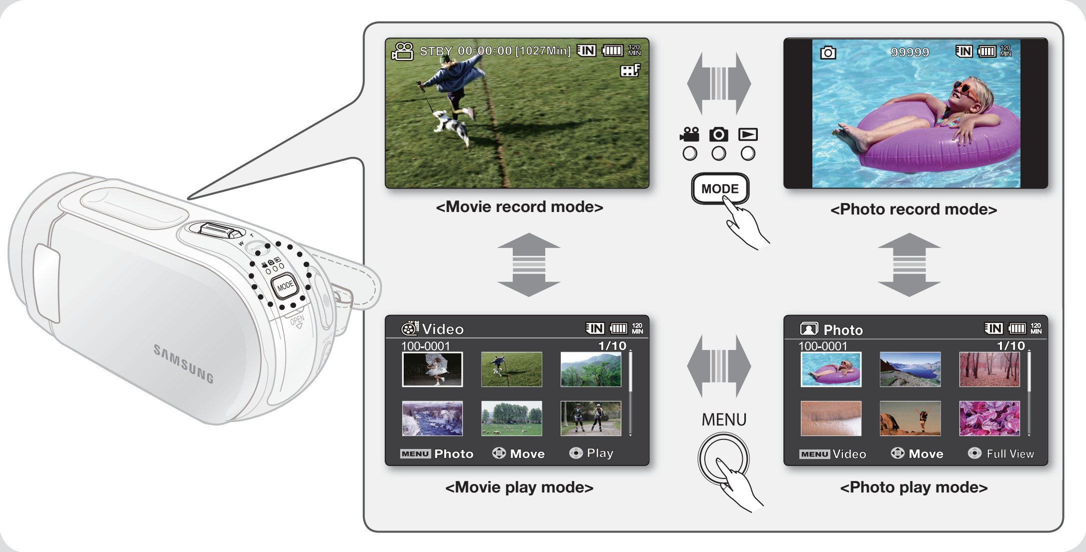
- If you operate the Zoom (W/T) lever during recording, the sound of the lever may be recorded as well.
- You can also zoom with the **Control** (W/T) button on the LCD panel.
- The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1cm (about 0.39 inch) for wide angle and 1m (about 39.4 inch) for telephoto.
- The focus changes when zooming after focussing manually. Focus automatically or seize the desired scene by zooming before focussing manually. ➥page 63
- Optical zoom preserves image quality, but during digital zoom the quality of image may suffer.
- Fast zooming or zooming in subject of far distance may produce slow focusing. In this case, use **"Manual Focus"**. ➥page 63
- It is recommended to use **"Anti-Shake (HDIS)"** with handheld recording if the subject is zoomed in and enlarged.
- Frequent use of zooming in / out consumes more battery power.

playback

You can view recorded movie and photo images in thumbnail index view and play them in various ways.

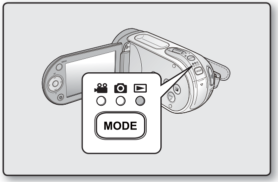
CHANGING THE PLAYBACK MODE

- Pressing the MODE button changes the operation mode to Video Record( ),Photo record( ),and Video/Photo Play ( )mode in turn.
- According to selected recording mode,recordings will be stored in video or photo thumbnail index view.
- To switch between video and photo thumbnails in the Video/Photo Play mode,press the MENU button and use the control button to select "Play Mode"->"Video" or "Photo".Setting the Play Mode menu is available in thumbnail view only.



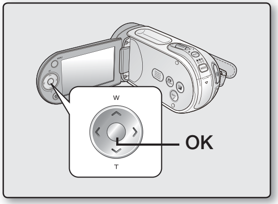
PLAYING MOVIE IMAGES

- This function works only in Movie Play mode. ➥page 22
- You can find a desired movie image quickly using thumbnail index view.



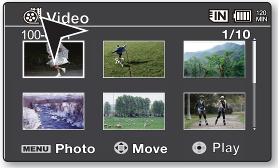
1. Turn the memory camcorder on.
- Slide the **POWER** switch downward to turn on the power.
- Set the appropriate storage media. ➥page 39
  (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)

2. Open the LCD screen.
- Adjust brightness or colour of the LCD screen. ➥page 87



3. Press the **MODE** button to set Play mode (▶). ➥page 22
- The thumbnail index screen appears on the LCD screen accordingly. (It may take some time to display the thumbnails).

4. Press the MENU button and use the control button to select “Play Mode”->”Video”. ➥page 50
- The thumbnail index view of movie images appears.



5. Use the **Control** button (∧ / ∨ / ‹ / ›) to select the desired movie images, and then press the **OK** button.
- Shortcut menu for playback will be displayed for a while.
- The selected movie images are played according to Play Option setting. ➥page 74
- To stop playback and return to the thumbnail index view, move the zoom lever.

playback

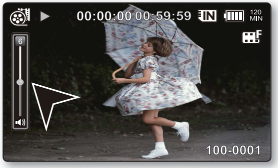
- If there is no file stored to view, the message **"Empty"** appears.
- Closing the LCD screen while in playback will automatically mute the sound.
- Movie files may not playback with memory camcorder in following cases:
  - Edited or renamed movie file on a PC
  - Movie file recorded by devices other than memory camcorder
  - Movie files of not supported file format by the memory camcorder
- The Built-in speaker automatically turns off when Audio/Video cable is connected to the memory camcorder. (When connected to external devices, volume adjustment should be done on the connected external device.)
- You can play back recorded movie files on a TV or a PC. ➥pages 94, 99
- You can upload recorded movie files to YouTube. ➥page 98
- For various functions available during playback, see **"**playback options**"**. ➥pages 73~79

Adjusting the volume

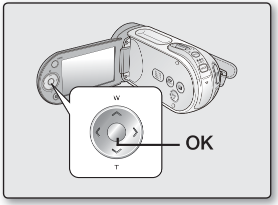
- You can hear the recorded sound from the built-in speaker.
- You can control the volume by using the **Control** button (∧ / ∨).
- The level can be adjusted anywhere between 0 and 10. (If you close the LCD screen while playing, you will not hear the sound from the speaker.)

Press the **Control** button (∧ / ∨) to increase or decrease the volume.

- The volume bar disappears after 3~4 seconds.



Various Playback Operations



Still playback (pause) (▶/ II)

- Press the **OK** button during playback.
  - To resume normal playback, press the **OK** button again.

Search playback (◁x2 / x2▷)

- During normal playback, press and hold the **Control** button (>) for forward search, or to the left for reverse search.
- Pressing the **Control** button to (< / >) repeatedly increases the search speed for each direction.
  - RPS (Reverse Playback Search) rate: x2→x4→x8→x16
  - FPS (Forward Playback Search) rate: x2→x4→x8→x16
- To resume normal playback, press the **OK** button.

Skip playback (I◀◀/ ▶▶I)

- During playback, press the **Control** button (>) to locate the start point of next file. Pressing the **Control** button (>) repeatedly skips files in forward direction.
- During playback, press the **Control** button (<) to locate the start point of the current file, pressing the **Control** button (<) repeatedly skips files in reverse direction.
- Press the **Control** button (<) within 3 seconds from the start point, it skips to the first image of the previous file.

Frame-by-frame playback (II▶)

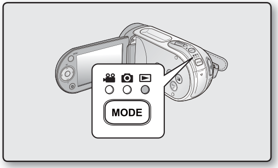
- While playback is paused, press the **Control** button (>).
  - Pressing the **Control** button (>) repeatedly advances the still picture frame by frame.
  - To resume normal playback, press the **OK** button.

Slow motion playback (I▶)

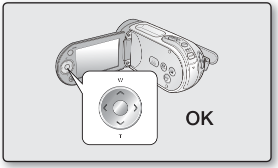
- While playback is paused, press and hold the **Control** button to (>), it plays back frame by frame just like slow motion playback at the x1/2, x1/4, x1/8 and x1/16 speed.
- To resume normal playback, press the **OK** button.
- Recorded sound does not play in slow playback.

VIEWING PHOTO IMAGES

- This function works only in Photo Play mode. ➥page 22
- You can find and view desired photo images quickly from the thumbnail index view.

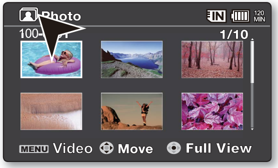


1. Turn the memory camcorder on.
- Slide the **POWER** switch downward to turn on the power.
- Set the appropriate storage media. ➥page 39
  (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)



2. Open the LCD screen.
- Adjust brightness or colour of the LCD screen. ➥page 87

3. Press the **MODE** button to set Play mode (▶). ➥page 22
- The thumbnail index screen appears on the LCD screen accordingly.
  (It may take some time to display the thumbnails).



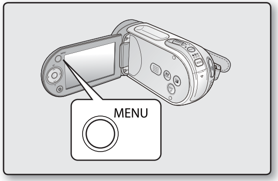
4. Press the MENU button and use the control button to select “Play Mode”->”Photo”. ➥page 50
- The thumbnail index view of photo images appears.

5. Use the **Control** button (∧ / ∨ / < / >) to select the desired photo images, and then press the **OK** button.
- Shortcut menu for playback will be displayed for a while.
- To view the previous/next photo, press the **Control** button (< / >).
- To return to the thumbnail index view, move the zoom lever.

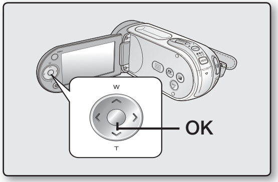
Photo images(JPEG) created in the other devices cannot be played back in this camcorder.

CHANGING THE MENU SETTINGS

You can change the menu settings to customize your memory camcorder. Access the desired menu screen by following the steps below, then change the various settings.



1. Slide **POWER** switch downward to turn the memory camcorder on.
2. Select the operation mode. ➥page 22
3. Press **MENU** button.
   - The menu screen appears.
4. Select the desired sub menu and menu item with the **Control** buttons (∧/∨/</>) and the **OK** button.
   - To return to the normal screen, press **MENU** button.
   - Depending on the mode selected, some menu items may not be available to select and change.



You can also access the shortcut menu using the **OK** button. ➥page 35

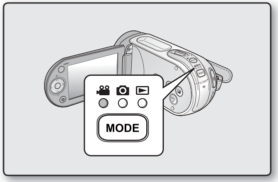
Button Tips

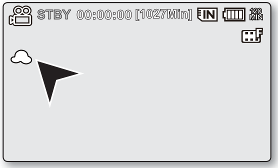
a. **MENU** button : Use it to enter or exit the menu.
b. **Control** button (∧/∨/</>) : Use it to move up/down/left/right
c. **OK** button : Use it to select or confirm the menu.

✪ Follow the instructions below to use each of the menu items listed after this page.

For example: setting the White Balance in Movie Record mode.

1. Slide the **POWER** switch downward to turn the memory camcorder on.
2. Select the operation mode.
   - For Movie Record Menus: Press **MODE** button to set Record (🎥).
3. Press **MENU** button.
   - The menu screen appears.
4. Press the **Control** button (< / >) to select **"White Balance"**.
5. Select the desired sub menu item with the **Control** button (∧ / ∨), and then press the **OK** button.
6. Press **MENU** button to exit the menu.





- The selected item is applied and the indicator is displayed. But in case of some item just like **"Auto"**, the item indicator may not displayed on the screen. (iSCENE, White Balance, Exposure, Shutter, Focus, etc.)
- You can also change the menu setting, using the shortcut menu represents the most frequently accessed functions. ➥page 35
- The illustration to the shows the Movie record mode. Before selecting a menu item, set the mode (Movie Record / Photo Record) first. ➥page 22

recording options

MENU ITEMS

- Accessing items in the menu depends on the operation mode.
- For operation details, see the corresponding page. ➥pages 58~72

● : Possible
✕ : Not possible

Recording menu items

Items	Movie Record (🎥)	Photo Record (📷)	Default value	Page
iSCENE	●	✕	Auto	58
Resolution	●	✕	TV Fine	66
16:9 Wide	●	✕	On	66
White Balance	●	●	Auto	59
Exposure	●	●	Auto	60
Shutter	●	✕	Auto	61
C.Nite	●	✕	Off	71
Back Light	●	●	Off	68
Focus	●	●	Auto	62
Anti-Shake (HDIS)	●	✕	Off	64
Digital Effect	●	✕	Off	65
Fader	●	✕	Off	71
Wind Cut	●	✕	Off	67
Zoom Type	●	✕	Intelli-Zoom	72
Time Lapse REC	●	✕	Off	69
Guideline	●	●	Off	72
Settings	●	●	-	80

USING THE RECORDING MENU ITEMS

You can setup the menu items for movie (or photo) images recording.

iSCENE

This memory camcorder automatically sets the shutter speed and aperture according to the subject brightness for optimum recording: You can also specify one of various modes depending on subject conditions, recording environment or purpose of filming.

item	contents	on-screen display
"Auto"	- You can shoot images in Auto adjustment mode.	None
"Sports"	- Reduces blurring when recording rapidly moving subjects such as in golf or tennis. If the Sports mode is used under a fluorescent light, the image may flicker. In this case, use the Auto mode for recording.	
"Portrait"	- Creates a shallow depth of field so that the person or subject appears against a softened background. - The portrait mode is most effective when used outdoors. - The shutter speed is automatically adjusted from 1/50 to 1/1000 per second.	
"Spotlight"	- Prevents overexposure of subject portrait face, etc. when strong light strikes the subject, as in a wedding or on stage.	
"Beach"	- When recording seaside of lakeside scenes, the blue of the water is clearly recorded.	
"Snow"	- When recording snowy scenes of other places where the whole screen appears white, use this mode to prevent sunken colours and record clear images.	
"High Speed"	- For recording fast-moving subjects such as golfers or tennis matches.	
"Food"	- Recording close-up objects in high saturation.	
"Waterfall"	- In condition as waterfall or fountain.	
"Manual"	- Adjustments necessary for shooting are made automatically, but you can also make exposure value, shutter speed, etc. adjustments as desired. In addition, you can also set the desired shooting functions using menus.	

- This function will not operate in the EASY Q mode.
- You can check the selected **"iSCENE"** on the on-screen information display. However, nothing will appear in **"Auto"** mode.
- In iSCENE mode, setting the exposure to **"Manual"** applies the exposure first (aperture priority).
- You can directly select iSCENE mode pressing **EASY Q** button for 3 second.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

White Balance

This memory camcorder automatically adjusts the colour of subject. Change the white balance setting depending on the recording conditions.

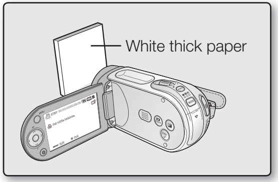
item	contents	on-screen display
"Auto"	Adjusts the White Balance automatically.	None
"Daylight"	Adjusts for conditions outside under a clear sky, at sundown, night scenes, the presence of neon signs or fireworks.	
"Cloudy"	Adjusts for a cloudy sky or shady location.	
"Fluorescent "	Adjusts for white fluorescent lighting.	
"Tungsten"	Adjusts for places under incandescent lamp, or under bright lighting, such as in a photo studio.	
"Custom WB"	Adjusts White Balance manually to match the light source or situation.	

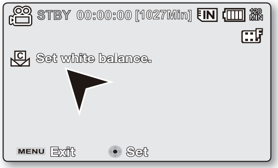
Setting the white balance manually :

1. Select **"Custom WB".**
- The indicator ( ) and the message **"Set White Balance"** are displayed.

2. Frame a white object such as a piece of paper so that it fills the screen.
Use an object that is not transparent.
- If the object that fills the screen is not focused, correct the focus using **"Manual Focus"** ➥page 62

3. Press the **OK** button.
- The white balance setting will be applied and indicator ( ) is displayed.





- A subject can be recorded under various types of lighting conditions indoors (natural, fluorescent, candlelight, etc.). Because the colour temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result.
- The white balance can not be used while EASY Q is in use.
- It is recommended that you specify **"Digital Zoom"** to **"Off"** before setting white balance. ➥page 72
- Reset the white balance if lighting conditions change.
- During normal outdoor recording, setting to auto may provide better results.
- Do not use a coloured object when setting white balance: The appropriate tint cannot be set.

Exposure

The memory camcorder usually adjusts the exposure automatically. You can also manually adjust the exposure depending on the recording conditions.

item	contents	on-screen display
"Auto"	This option automatically adjusts image brightness according to the environmental light conditions.	None
"Manual"	- You can adjust the brightness of an image manually. - Adjust the brightness when the subject is too bright or too dark.	M XX

Setting the exposure manually:

When manually setting the exposure, the default setting appears as the value is automatically adjusted according to the environmental light conditions.

- Press the **Control** button (❮/❯) to adjust the exposure while viewing the image on the LCD screen.
  - Confirm your selection by pressing the **OK** button.
  - Exposure value can be set between **"00"** and **"29"**.
  - If you set exposure to manual, the higher the exposure, the brighter the recorded picture will be.

Manual exposure is recommended in situations listed below :

- When shooting using reverse lighting or when the background is too bright.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When the background is overly dark or the subject is bright.

- The exposure also can be set in the shortcut menu. ➥page 35
- EASY Q mode automatically sets the **"Exposure"** to **"Auto"**.
- In iSCENE mode, setting the exposure to **"Manual"** applies the manual adjustment of the exposure first, and the iSCENE mode is set to **"Manual"** automatically.

Shutter

The memory camcorder automatically sets the shutter speed depending on the subject brightness.
You can also manually adjust the shutter speed according to the scene conditions.

item	Contents	On-screen display
"Auto"	The memory camcorder automatically sets the appropriate aperture value.	None
"Manual"	Shutter speed can be set to 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, or 1/10000.	1/XXX

Setting the shutter speed manually:

You can set the shutter speed manually. A fast shutter speed can freeze the motion of a fast moving subject and a slow shutter speed can blur the subject to give the impression of motion. The adjusted value is applied right after moving the **Control** button (</>) to adjust the shutter speed.

1. Press the **Control** button (^) to select **"Manual"**.
   - The manual shutter adjustment indicators appear.
2. Press the **Control** button (</>) to select the desired indicator to adjust shutter speed, then press the **OK** button.
   - The adjusted value is applied right after pressing the **Control** button (</>) to adjust the shutter speed.
   - The manual shutter setting will be applied and (1/XXX) indicator is displayed.

The shutter speed also can be set in the shortcut menu. ➥page 35

Recommended shutter speed when recording:

Shutter speed	conditions
1/50	The shutter speed is fixed at 1/50 second. Black bands that usually appear when shooting a TV screen become narrower.
1/120	The shutter speed is fixed at 1/120 second. Indoor sports such as basketball. The flickering that occurs when shooting under a florescent light or mercury-vapor lamp is reduced.
1/250, 1/500, 1/1000	Moving cars, trains or other rapidly moving vehicles such as roller coasters.
1/2000, 1/4000, 1/10000	Outdoor sports such as golf and tennis.

- In iSCENE mode, setting the shutter speed to **"Manual"** applies the manual adjustment of the shutter speed first.
- The image may not seem smooth when a high shutter speed is setted.
- This function will be set to **"Auto"** in the EASY Q mode.
- When recording with a shutter speed of 1/1000 or higher, make sure the sun is not directly shining into the lens.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

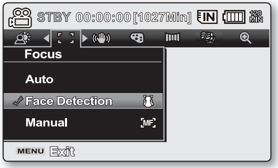
Focus

- The memory camcorder usually focuses on a subject automatically (auto-focus).
- You can also manually focus a subject depending on the recording conditions.

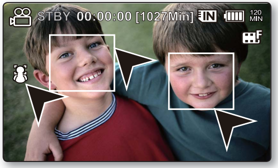
item	contents	on-screen display
"Auto"	In most situations, it is better to use the automatic focus feature, as it enables you to concentrate on the creative side of your recording.	None
"Face Detection"	Records under the optimal condition by detecting faces automatically.	
"Manual"	Manual focusing may be necessary under certain conditions that make automatic focusing difficult or unreliable.	

Face detection

It detects and recognises face-like shape and adjusts focus, colour and exposure automatically. Also, it adjusts recording conditions optimized for the face detected.



1. Press the **Control** button (∧ / ∨) to select **"Face Detection"**, and then press the **OK** button.
   - Detects a face and shows a frame on it. The detected face image is optimized automatically.



- The Face Detection Indicator ( ) and Face Detection Frame ( ) are not recorded.
- Framing a person’s face while Face Detection is set will adjust focus and exposure to optimal values automatically.
- Face Detection may not operate depending on the recording conditions. For example, the Face Detection Frame may appear when framing a "face-like" shape, even when the subject is not a person's face. If this occurs, turn off the Face Detection feature.
- The Face Detection feature will not work when framing the side of a person's face. You must facing them "head-on"
- Face Detection will not work in Web&Mobile mode.
- While using the following functions, you cannot use the **"Face Detection"** function: EASY Q, iSCENE, Shutter, Exposure, Digital Effect, C.Nite ➥page 118

Focusing manually during recording:

This memory camcorder automatically focuses a subject from close-up to infinity. However, the correct focus may not be obtained depending on the recording condition. In this case, use the manual focus mode.

1. Press the **Control** button (∧ / ∨) to select **"Manual"**.
   - The manual focus adjustment indicator appears.
2. Press the **Control** button (< / >) to select the desired indicator to adjust focus, then press the **OK** button.

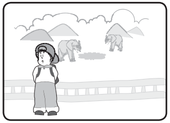
Focusing on a nearer subject

To focus on a nearer subject, press the **Control** button (<) to the indicator ( ).

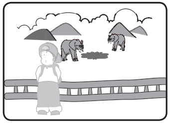
Focusing in a further subject

To focus on a further subject, press the **Control** button (>) to the indicator ( ).

- The nearer or farther icon (/) appears between the indicators when focus adjustment reaches the end. The adjusted value is applied right after press the **Control** button (< / >) to adjust the focus.
- The manual focus setting will be applied and ( ) indicator is displayed.



<Nearer subject >



<Further subject >

Manual focus is recommended in the following situations :

- A picture containing several objects, some close to the memory camcorder, others further away.
- A person enveloped in fog or surrounded by snow.
- Very shiny or glossy surfaces like a car.
- People or objects moving constantly or quickly like an athlete or a crowd.

- You can easily adjust the focus using Shortcut menu button. ➥page 35
- Manual focusing focuses on a point in the framed scene while auto focusing focuses on the centre area automatically.
- EASY Q mode will set the focusing to **"Auto"** automatically.
- Before focusing by manual, frame your scene by zooming. Zooming after setting the focus requires focusing again.
- Before focusing by manual, check if the **"Digital Zoom"** is turned off. While **"Digital Zoom"** is turned on, manual focusing will not focus with accuracy. Turn the **"Digital Zoom"** off. ➥page 72
- When the focusing reaches to its limit, an indicator appears on the centre of the LCD screen.

Anti-Shake (HDIS)

When you use zoom to record a magnified subject image, it will correct fuzziness in the recorded image.

item	contents	on-screen display
"Off"	Disables the function.	None
"On"	Compensates for unstable images caused by camcorder-shake, particularly at high magnification.	

Anti-Shake(HDIS) provides a more stable image when:

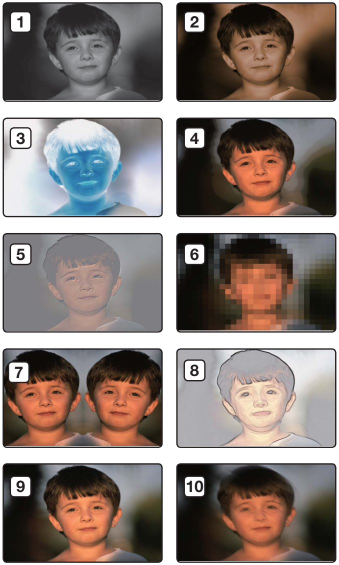
- Recording while zooming
- Recording small objects
- Recording while walking or moving
- Recording through the window of a moving vehicle

- EASY Q mode automatically sets the **"Anti-Shake(HDIS)"** to **"On"** while using EASY Q.
- When **"Anti-Shake(HDIS) : On"** is specified, there will be a slight difference between the actual movement and the movement on screen.
- Large camcorder shake may not be entirely corrected even if **"Anti-Shake(HDIS) : On"** is specified. Firmly hold the memory camcorder with both hands.
- It is recommended that you specify **"Anti-Shake(HDIS): Off "** when using the memory camcorder on a desk or tripod.
- When you record pictures with 34x or more magnification and the **"Anti-Shake(HDIS)"** is **"On"** in dim places, after-images may stand out. In this case, we recommend using a tripod and turning the **"Anti-Shake(HDIS)"** to **"Off"**.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Digital Effect

- The digital effect enables you to give a creative look to your recording.
- Select the appropriate digital effect for the type of picture that you wish to record and the effect you wish to create.
- There are 10 different digital effect options.

item	contents	on-screen display
"Off"	Disables the function.	None
1 "BLK&WHT"	Changes the images into Black and White.	
2 "Sepia "	This mode gives the images a reddish brown pigment.	
3 "Negative"	Reverses the colours and the brightness, creating the look of a negative.	
4 "Art"	Adds artistic effects to an image.	
5 "Emboss"	This mode creates a 3D effect (embossing).	
6 "Mosaic"	A mosaic overlay appears on an image.	
7 "Mirror"	This mode cuts the image in half and make mirrored image on the other half.	
8 "Pastel"	This mode applies a pale pastel drawing effect to an image.	
9 "Cosmetic"	This mode helps adjust for facial imperfections.	
10 "Steppprinting"	Technique of recording the image in segments.	



- **"Digital Effect"** modes are not available while **EASY Q** is in use.
- In **"16:9 Wide"** or **"C.Nite"** mode, you can not use the following functions : **"Mosaic", "Mirror", "Stepprinting"** (Digital Effect). If you want to use the following functions, set the **"16:9 Wide"** or **"C.Nite"** menu to **"Off"** first.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

16:9 Wide

You can select the desired LCD display aspect ratio for recording or playback (16:9 Wide/4:3 aspect ratio).

item	contents	on-screen display
"Off"	Disables the function. Displays the image in 4:3 aspect ratio. Select to use the standard display aspect ratio of 4:3 on the screen.	None
"On"	Recording and view of 16:9 aspect ratio.	None

- In **"16:9 Wide"** mode, you can not use the following functions : **"Mosaic", "Mirror"**, **"Stepprinting"** (Digital Effect). If you want to use the following functions, set the **"16:9 Wide"** menu to **"Off"** first.
- Please set the aspect ratio before recording. The default setting is **"16:9 Wide"**.
- 16:9 Wide mode is not available when the resolution is set to **"Web & Mobile"**.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Resolution

You can select the resolution of a movie to be recorded. This memory camcorder can record in the **"TV Super Fine"**, **"TV Fine"**, **"TV Normal"** and **"Web & Mobile"** modes. The "TV Fine" mode is set as the factory default.

item	contents	on-screen display
"TV Super Fine"	Movie images recorded in the 720x576(50i) resolution at super-fine image quality.	
"TV Fine"	Movie images recorded in the 720x576(50i) resolution at fine image quality.	
"TV Normal"	Movie images recorded in the 720x576(50i) resolution at normal image quality.	
"Web & Mobile"	Movie images recorded in the 640x480 resolution at normal image quality. It supports viewing with the optimal resolution on a PC.	

- You can record a scene at four resolution levels: **"TV Super Fine", "TV Fine", "TV Normal"** or **"Web & Mobile"**. However, the better the resolution is, the more memory is used.
- The recording times depend on the resolution of a movie to be recorded. ➥page 44
- Only 4:3 aspect ratio is applied to the recording in **"Web & Mobile"** mode.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Wind Cut

You can reduce wind noise when recording sound from the built-in microphone.
If **"Wind Cut : On"** is set, the low-frequency components in the sound picked up by the microphone will be cut off during recording: This makes it easier to hear voice and sound during playback.

- Use the Wind Cut when recording in windy places such as a beach.

item	contents	on-screen display
"Off"	Disables the function	None
"On"	Minimizes wind noise or other noise while recording.	

- Make sure the **"Wind Cut"** is set to **"Off"** when you want the microphone to be sensitive as possible.
- The Wind Cut function works only with the built-in microphone.
- The Wind Cut function can not use while EASY Q is in use.
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Quick View

The Quick View function is used if you want to preview the last recorded image.

- Press the Control button (>) to select "Quick View".and switch to image Quick View mode.

-.Video mode:Then you can press the Control button (∧) or (∨) to switch to pause or delete the current video.

During Quick view, press and hold the Control button (>) for forward search, or to the left (<) for reverse search.Pressing the Control button (< / >) to repeatedly increases the search speed for each direction.

- RPS (Reverse Playback Search) rate: x2 →x4 →x8 →x16

- FPS (Forward Playback Search) rate: x2 →x4 →x8 →x16

To resume STBY mode, press the OK button.

-.Photo mode: Then you can press the Control button (∨) to delete the current image.

- The Quick View only can be set in the shortcut menu. ➥page 35

Back Light

When subject is lit from behind, this function will compensate for lighting so that the subject is not too dark.

item	contents	on-screen display
"Off"	Disables the function.	None
"On"	- Backlight compensation is executed. - Backlight compensation brightens the subject quickly.	

Back lighting influences recording when the subject is darker than the background:

- The subject is in front of a window.
- The subject is against a snowy background.
- The subject is outdoors and the background is overcast.
- The light sources are too bright.
- The person to be recorded is wearing white or shiny clothes and is placed against a bright background: The person’s face is too dark to distinguish his/her features.

<BLC off>

<BLC on>

The **"Back Light"** function can not use while EASY Q is in use.

recording options

Time Lapse REC (recording images at Time Lapses)

Images are automatically shot a frame at a time at the specified Time Lapse and stored in storage media.

item	contents	on-screen display
"Off"	Disables the function	None
"On"	- Recording Time Lapse (**"Sec"**): Image of the subject is captured by set Time Lapse. Images are automatically shot a frame at a time at the specified Time Lapse and stored in storage media. 01→ 03→ 05→10→15→ 30 second - Total Recording Time (**"Hr"**): Total time from start to finish of recording. 24→ 48→ 72→ ∞ hour	

Setting the Time Lapse REC mode:

To record in Time Lapse REC mode, you need to set the recording Time Lapse and the total time from start to finish of recording using the menu.

1. Press the **MENU** button.

2. Press the **Control** button (< / >) to select **"Time Lapse REC"**, and then press the **OK** button.

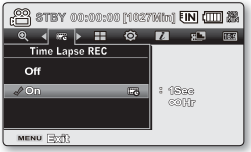
3. Press the **Control** button (∧ / ∨) to select **"On"**, then press the **OK** button.
- The recording Time Lapse and total time for recording items are highlighted. (**"Sec":** seconds, **"Hr":** hours)

4. Set a desired recording Time Lapse (**"Sec"**) with **Control** button (∧ / ∨).

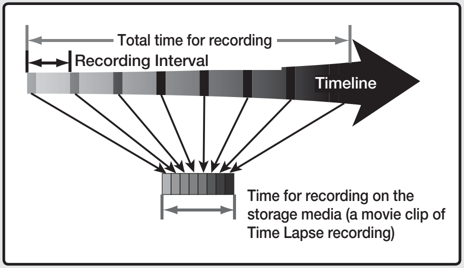
5. Move it next with **Control** button (< / >) and set a desired total recording time(**"Hr"**) in the same way.

6. Press the **OK** button to finish the setting and press the **MENU** button to exit the menu.

7. After setting the Time Lapse REC mode, press the **Recording start/stop** button. Then the Time Lapse recording starts.
- During the total recording time, images are automatically shot a frame at a time at the specified Time Lapse and stored in storage media.
- While playing back, it will display 25 images per second. (Sound is not available.) For example, if the recording Time Lapse was **"30"** second and the total recording time was **"24"** hour, images are automatically captured and saved in storage media at every 30 seconds for 24 hours. (After 24 hours of recording, playing it back will play the recording of 24 hours for about 48 minutes.)

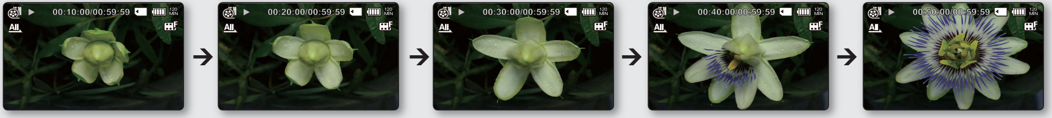


Example of Time Lapse Recording



Time Lapse Recording records image frames at the predefined Time Lapse
over the total recording time to produce a time-lapse video.
For example, Time Lapse Recording is useful for filming following cases:

- Blooming flowers
- Insect's skin-casting
- Clouds rolling by in the sky



- Time Lapse recording mode is released once recording has been finished. To start another Time Lapse recording, repeat steps 1~7.
- Captured 25 contiguous images compose a movie clip of 1 second length. Since the minimum length of a movie to be saved by your camcorder is one second, Time Lapse defines how long the Time Lapse recording should be taken.
  For example, if you set the Time Lapse to **"30 Sec"**, Time Lapse recording should be taken for at least 15 minutes to record minimum movie length of 1 second (25 images).
- Once the Time Lapse recording finishes recording for its total recording time, it switches to the standby mode.
- Press the Recording start/stop button if you want to stop the Time Lapse recording.
- The Time Lapse recording does not support the sound input. (mute recording)
- When a movie recording fills up 1.8GB of storage memory, a new recording file is automatically started at that point.
- When the battery charge was exhausted during an Time Lapse recording, it saves recording up to the point and switches to standby mode. After a while, it displays message of exhausted battery, and then turns off automatically.
- When the memory space of the storage media is insufficient during the Time Lapse recording, it switches to the standby mode after saving the recording up to its maximum.
- We recommend using AC power adaptor during the Time Lapse recording.

C.Nite

You can take a shot of an object in slow motion by controlling the shutter speed, or a brighter image in dark places without compromising colours.

item	contents	on-screen display
"Off"	Disables the function.	None
" AUTO "	The memory camcorder automatically adjusts image brightness.	C.N AUTO
" 1/25 "	Records a brighter image brighter.	C.N 1/25
" 1/13 "	Records a brighter image even in a dark place.	C.N 1/13

- When using the C.Nite, the image takes on a slow motion like effect.
- When using the C.Nite, the focus adjusts slowly and white dots may appear on the screen, this is not a defect.
- The C.Nite function can not use while the following functions are in use.
  : **"iSCENE", "Anti-Shake(HDIS)"** or EASY Q
- **"Mirror", "Mosaic"** and **"Stepprinting"** mode is not available in the **"C.Nite"** mode. ➥page 65
- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Fader

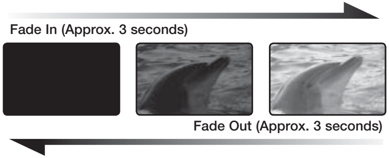
You can give your recording a professional look by using special effects such as fade in at the beginning of a sequence or fade out at the end of a sequence.

item	contents	on-screen display
"Off"	Disables the function.	None
"In"	As soon as you start recording, the fader will be executed.	
"Out"	When the recording is done, the fader will be executed.	
"In-Out"	When you start or stop recording, the fader will be executed accordingly.	

Fade in
Press the **Recording start/stop** button when **"Fader"** is set to **"In"**.
Recording starts with a dark screen and then the image and sound are faded in.

Fade out
Press the **Recording start/stop** button when **"Fader"** is set to **"Out"**.
Recording stops as the image and sound are faded out.

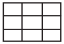
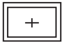
Fade in-out
Press the **Recording start/stop** button when **"Fader"** is set to **"In-Out"**.
Recording starts with a dark screen and then the image and sound are faded in.
And recording stops as the image and sound are faded out.



This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22

Guideline

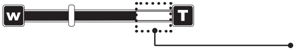
- Guideline displays a certain pattern on the LCD screen so that you can easily set the image composition when recording images.
- The memory camcorder provides 3 types of guidelines.

item	contents	on-screen display
"Off"	Disables the function.	None
"Cross"	Records the subject placed in the centre as the most general recording composition.	
"Grid"	Records the subject on the horizontal or vertical composition or with close-up.	
"Safety Zone"	Records the subject within safety zone which prevents from being cut when editing in 4:3 for left and right and 2.35:1 for top and bottom. Set **"Safety Zone"** when you want to have various subjects in one scene with the proper size.	

- Positioning the subject at the cross point of the guideline makes a balanced composition.
- Guideline cannot be recorded on the images being recorded.

Zoom Type

- This function is only available in Video Record mode.
- The memory camcorder offers three types of zoom: optical, intelligent and digital zoom when recording videos.



This right side of the bar shows the digital zooming zone.
The zooming zone appears when you move the zoom lever.

item	contents	on-screen display
"Optical zoom"	Only optical zoom is available up to 34x.	None
"Intelli-zoom"	- The camcorder zooms the full width of the image sensor to obtain a larger zoom range without any deterioration in image quality. - Intelli-zoom is available up to 42x.	None
"Digital zoom"	- When this option is selected, the camcorder will switch automatically to the digital zoom when you zoom in beyond the optical or intelligent zoom range. With the digital zoom the image is processed digitally so image quality will deteriorate the more you zoom in. - Digital zoom is available up to 1200x.	None

playback options

- This function works only Movie Record mode. Before selecting a menu item, set the mode to Movie Record first. ➥page 22
- The image quality may deteriorate depending on how much you zoom in on the subject.
- Maximum zooming may result in lower image quality.
- Intelli-Zoom is not available when using the following settings; "16:9 Wide:Off," "Resolution: Web & Mobile," "C.Nite." While using the these functions, the "Intelli-Zoom" setting will automatically switch to "Optical Zoom" to preserve the image quality.
- Optical Zoom and Intelli-Zoom preserve the video quality, but during digital zoom the image quality may suffer.
- The zoom range will change depending on the aspect ratio of the video.

MENU ITEMS

- Accessible items in the menu vary depending on the operation mode.
- See pages 50-54 for playback information and button operation.
- See pages 73-80 for details on menu items during playback.

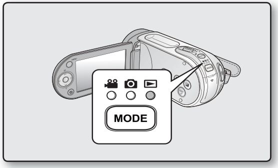
●: Possible
×: Not possible

Playback menu items (▶)

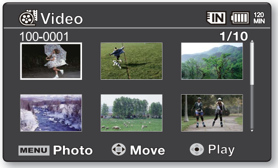
Items	on-screen display	Movie Play	Photo Play	Default value	Page
Play Mode	-	●	●	Video	50
Play Option	All	●	×	Play All	74
Slide Show		×	●	-	79
Delete		●	●	-	75
Protect		●	●	-	76
Copy		●	●	-	77
File Info	-	●	●	-	78
Settings	-	●	●	-	80

SETTING THE PLAY OPTION

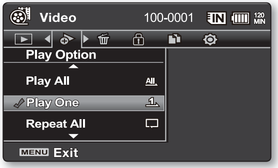
- You can play all movie images continuously or play the selected movie images only.
- You can also set the repeat option for all movie images.



1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media.
     (If images were recorded on a memory card, insert the memory card.)
2. Press the **MODE** button.And then press the MENU button and use the control button to select “Play Mode”->”Video”. ➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.



3. Press the **MENU** button.
   - Press the **Control** button (< / >) to select **"Play Option"**.
4. Press the **Control** button (∧ / ∨) to select an option, and then press the **OK** button.

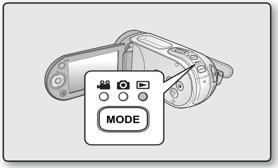


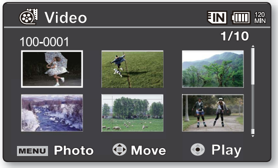
item	contents
"Play All"	Plays back from the selected movie to the last movie.
"Play One"	The selected movie will be played.
"Repeat All"	All movies will be played repeatedly.
"Repeat One"	The selected movie will be played repeatedly.

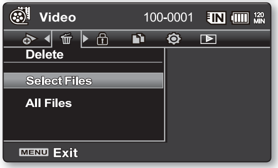
5. Press the **MENU** button to exit the menu.
   - During playback, the selected item is applied.

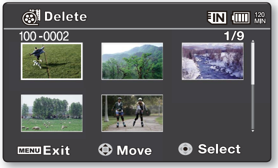
- While the menu or thumbnail image screen is displayed, pressing the **Recording start/stop** button will move to the Movie Record mode.
- In general, use of functions both in thumbnail display and full image display employs the same method, while their detailed options appear to be different.
- This function works only Movie Play mode. Before selecting a menu item, set the mode to Movie Play first. ➥page 50

DELETING IMAGES









- You can delete saved movie (or photo) images.

1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media.
     (If images were recorded on a memory card, insert the memory card.)
2. Press the **MODE** button. And then press the MENU button and use the control button to select "Play Mode"->"Video" or "Photo" ➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.
3. Press the **MENU** button.
4. Press the **Control** button (< / >) to select **"Delete"**.
5. Select an option by pressing the **Control** button (∧ / ∨) and then press the **OK** button.

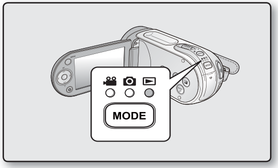
item	contents
"This File"	Deletes the selected movie (or photo) image. (This function is available only in the full image display mode)
"Select Files"	Deletes individual selected movie (or photo) images. - To delete individual movie (or photo) images, select desired movie (or photo) images to delete by pressing the **OK** button. And then press the **MENU** button to delete. - The indicator (🗑) is displayed on the selected movie (or photo) images. - Pressing the **OK** button toggles the selection and release.
"All Files"	Deletes all movie (or photo) images.

6. The pop-up selection menu will appear depending on the selected menu item.
   In this case, select the desired item with the **Control** buttons (< / >) and the **OK** button.
   - Accordingly the deleted images also disappear in thumbnail images.

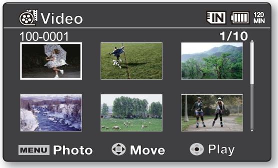
- In general, use of functions both in thumbnail display and full image display employs the same method, while their detailed options appear to be different.
- Once deleted, an image can not be restored.
- Protected files will not be deleted.
- To protect important images from accidental deletion, activate the image protection. ➥page 76
- If the write protection tab on the memory card is set to lock, you cannot delete.
- Note that removing the battery pack or disconnecting AC power adaptor while you delete files may damage the storage media.
- The illustration to the shows the Movie Play mode. Before selecting a menu item, set the mode (Movie Play / Photo Play) first.

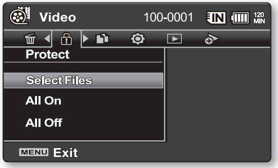
PROTECTING IMAGES

- You can protect saved important movie (or photo) images from accidental deletion.
- Protected images will not be deleted unless you release the protection or format the memory.



1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media.
     (If images were recorded on a memory card, insert the memory card.)
2. Press the **MODE** button. And then press the MENU button and use the control button to select “Play Mode”->”Video” or “Photo”. ➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.
3. Press the **MENU** button.
   - Menu screen appears.
4. Press the **Control** button (< / >) to select **"Protect"**.
5. Select an option by pressing the **Control** button (∧ / ∨) and then press the **OK** button.





item	contents
"On"	Protects the selected movie (or photo) image from delection. (This function is available only in the full image display mode)
"Select Files"	Protects selected movie (or photo) images from delection - To protect individual movie (or photo) images, select desired movie (or photo) images by pressing the **OK** button. And then press the **MENU** button to confirm. - The indicator ( ) is displayed on the selected movie (or photo) images. - Pressing the **OK** button toggles the selection and release.
"All On"	Protects all movie (or photo) images.
"All Off"	Cancels the protection for all movie (or photo) images.

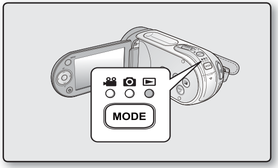
6. The pop-up selection menu will appear depending on the selected menu item. In this case, select the desired item with the **Control** buttons (< / >) and the **OK** button.

- In general, use of functions both in thumbnail display and full image display employs the same method, while their detailed options appear to be different.
- Protected movie (or photo) images will show the indicator ( ) when they are displayed.
- If the write protection tab on the memory card is set to lock, you cannot set image protection.
- The illustration to the shows the Movie Play mode. Before selecting a menu item, set the mode (Movie Play / Photo Play) first.

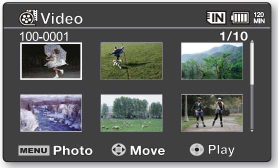
playback options

COPYING IMAGES(SMX-F33(2)BP/SP/RP/SP AND SMX-F34(0)BP/SP/RP/SP ONLY)

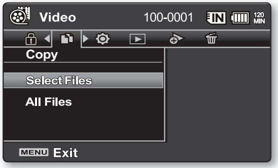
- Images are copied to the destination storage with leaving original images in the source storage.
- It copies from the currently-used memory to another. For example, if the built-in memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)) was used, it copies to a memory card.



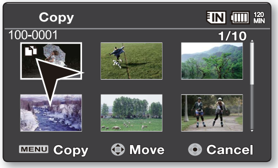
1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media. (Insert a memory card.)
2. Press the **MODE** button. And then press the MENU button and use the control button to select "Play Mode"->"Video" or "Photo".➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.
3. Press the **MENU** button.
   - Menu screen appears.
4. Press the **Control** button (< / >) to select **"Copy"**.
5. Select an option by pressing the **Control** button (∧ / ∨) and then press the **OK** button.



item	contents
"This File"	Copies the selected movie (or photo) images. (This function is available only in the full image display mode)
"Select Files"	Copies the individual movie (or photo) images. - To copy individual movie (or photo) images, select desired movie (or photo) images by pressing the **OK** button. - The indicator ( ) is displayed on the selected movie (or photo) images. And then press the **MENU** button to confirm. - Pressing the **OK** button toggles the selection and release.
"All Files"	Copies all the movie (or photo) images.



6. The pop-up selection menu will appear depending on the selected menu item. In this case, select the desired item with the **Control** buttons (< / >) and the **OK** button.

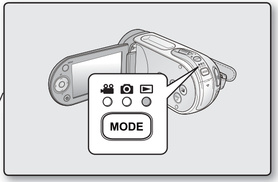


- In general, use of functions both in thumbnail display and full image display employs the same method, while their detailed options appear to be different.
- If a memory card is not inserted, you can not perform the **"Copy"** function.

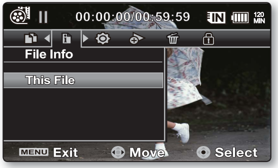
- If free space available on the storage is insufficient, copying may not be possible. Delete unnecessary images. ➥page 75
- Copied movie (or photo) images have no protection even if the original is set to be protected.
- Copying may take a while depending on the number of files and file size.
- Copying may not operate if the battery charge is insufficient. If available, use AC adaptor while copying to prevent power disconnection.
- Note that removing the battery pack or disconnecting AC power adaptor while you copy files may damage the storage media.
- Follow the same instruction to copy video clips (or photos) from memory card to built-in memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)).
  Before using this function, select the storage media that has desired videos (or photos) to be copied.
- The illustration to the shows the Movie Play mode. Before selecting a menu item, set the mode (Movie Play / Photo Play) first.

FILE INFORMATION

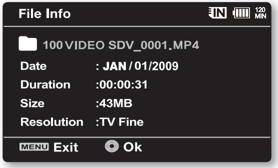
- You can see the image information for all images.



1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media. (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
2. Press the **MODE** button. And then press the MENU button and use the control button to select “Play Mode”->”Video” or “Photo”. ➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.



3. Select the desired movie (or photo) images, using the **Control** button.
4. Press the **OK** button.
   - The selected movie (or photo) image is played according to play option setting.
5. Press the **MENU** button.
6. Press the **Control** button (< / >) to select **"File Info"**.
7. Press the **OK** button.
   - Press the **MENU** button again after confirming.
   - The information of the selected file is displayed as shown below.
     - Date
     - Duration
     - Size

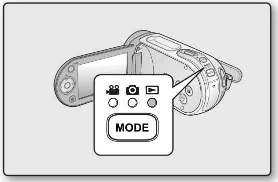


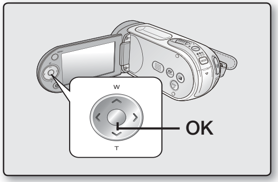
- This function is available only in the full image display mode.
- The illustration to the shows the Movie Play mode.
  Before selecting a menu item, set the mode (Movie Play / Photo Play) first.

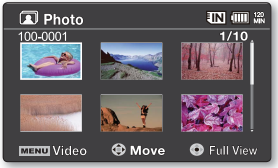
playback options

SLIDE SHOW

You can playback all the photo images stored in the storage media automatically.







1. Turn the memory camcorder on.
   - Slide the **POWER** switch downward to turn on the power.
   - Set the appropriate storage media. ➥page 39
     (If images were recorded on a memory card, insert the memory card.)
2. Open the LCD screen.
   - Adjust brightness or colour of the LCD screen. ➥page 87
3. Press the **MODE** button. Press the MENU button and use the control button to select "Play Mode"->"Photo" ➥page 50
   - The thumbnail index screen appears on the LCD screen accordingly.
4. Press the **MENU** button.
5. Press the **Control** button (< / >) to select **"Slide Show"**, and then press the **OK** button.
   - The ( ) indicator is displayed. The Slide Show will start from the current image.
   - All photo images will be played back consecutively for 2~3 seconds each.
   - To end the slide show, press the **OK** button again.

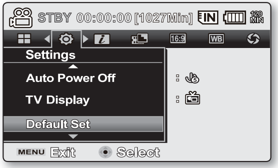
This function works only Photo Play mode.
Before selecting a menu item, set the mode to Photo Play first. ➥page 50

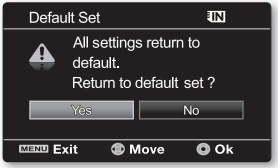
settings options

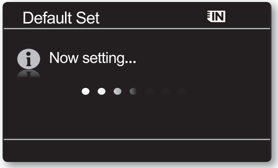
CHANGING THE MENU SETTINGS IN "SETTINGS"

You can change the menu settings to customize your memory camcorder.
Access the desired menu screen by following the steps below and change the various settings.

1. Slide **POWER** switch downward to turn the memory camcorder on.
2. Press **MENU** button.
   - The menu screen appears.
3. Press the **Control** button (< / >) to select **"Settings"**.
   - The menus in **"Settings"** mode will appear.
4. Select the desired sub menu and menu item with the **Control** buttons (∧ / ∨) and the **OK** button.
   - To return to the normal screen, press **MENU** button.
   - Depending on the mode selected not all items will be selectable to be changed. (If there is no storage media inserted, it can not be selected and will be dimmed on the menu: **"Storage", "Storage Info", "Format"**, etc.)







Button Tips

a. **MENU** button : Use it to enter or exit the menu.
b. **Control** button (∧ / ∨ / < / >) : Use it to move up/down/left/right
c. **OK** button : Use it to select or confirm the menu.

- The pop-up selection menu will appear depending on the selected menu item. In this case, select the desired item with the **Control** buttons (< / >) and the **OK** button.
- The illustration to the shows the Movie record mode. Before selecting a menu item, set the appropriate operation mode first (Movie Record / Photo Record / Movie Play /Photo Play). ➥page 22

MENU ITEMS

- You can setup the date/time, OSD language and display settings of the memory camcorder.

● : Possible
× : Not possible

Settings menu items ( )

<table>
<tr><th rowspan="2">Items</th><th rowspan="2">Movie Record ( ) mode</th><th rowspan="2">Photo Record ( ) mode</th><th colspan="2">Play ( ) mode</th><th rowspan="2">Default values</th><th rowspan="2">Page</th></tr>
<tr><th>Movie Play ( ) mode</th><th>Photo Play ( ) mode</th></tr>
<tr><td>Storage</td><td colspan="2">●</td><td colspan="2">●</td><td>Memory</td><td>82</td></tr>
<tr><td>Storage Info</td><td colspan="2">●</td><td colspan="2">●</td><td>-</td><td>82</td></tr>
<tr><td>Format</td><td colspan="2">●</td><td colspan="2">●</td><td>-</td><td>83</td></tr>
<tr><td>File No.</td><td colspan="2">●</td><td colspan="2">●</td><td>Series</td><td>83</td></tr>
<tr><td>Time Zone</td><td colspan="2">●</td><td colspan="2">●</td><td>Home</td><td>84</td></tr>
<tr><td>Date/Time Set</td><td colspan="2">●</td><td colspan="2">●</td><td>01/JAN/2009 00:00</td><td>86</td></tr>
<tr><td>Date Type</td><td colspan="2">●</td><td colspan="2">●</td><td>01/JAN/2009</td><td>86</td></tr>
<tr><td>Time Type</td><td colspan="2">●</td><td colspan="2">●</td><td>24Hr</td><td>86</td></tr>
<tr><td>Date/Time Display</td><td colspan="2">●</td><td colspan="2">●</td><td>Off</td><td>86</td></tr>
<tr><td>LCD Brightness</td><td colspan="2">●</td><td colspan="2">×</td><td>0</td><td>87</td></tr>
<tr><td>LCD Colour</td><td colspan="2">●</td><td colspan="2">×</td><td>-</td><td>87</td></tr>
<tr><td>Beep Sound</td><td colspan="2">●</td><td colspan="2">●</td><td>On</td><td>87</td></tr>
<tr><td>Shutter Sound</td><td colspan="2">●</td><td colspan="2">●</td><td>On</td><td>87</td></tr>
<tr><td>Auto Power Off</td><td colspan="2">●</td><td colspan="2">●</td><td>5 Min</td><td>88</td></tr>
<tr><td>TV Display</td><td colspan="2">●</td><td colspan="2">×</td><td>On</td><td>88</td></tr>
<tr><td>Default Set</td><td colspan="2">●</td><td colspan="2">●</td><td>-</td><td>88</td></tr>
<tr><td>Version</td><td colspan="2">●</td><td colspan="2">●</td><td>-</td><td>89</td></tr>
<tr><td>Menu Design</td><td colspan="2">●</td><td colspan="2">●</td><td>Mystic White</td><td>89</td></tr>
<tr><td>Transparency</td><td colspan="2">●</td><td colspan="2">×</td><td>0%</td><td>89</td></tr>
<tr><td>Language</td><td colspan="2">●</td><td colspan="2">●</td><td>English</td><td>89</td></tr>
<tr><td>Demo</td><td colspan="2">●</td><td colspan="2">●</td><td>Off</td><td>89</td></tr>
</table>

- These Items and Default values may be changed without notice.
- There are some functions you cannot activate simultaneously in the menu. You cannot select the grey menu items.

USING THE SETTINGS MENU ITEMS

Storage

You can record movie (or photo) images on the built-in memory built-in memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)) or a memory card, so you should select the desired storage media before starting recording or playback.

settings	contents	on-screen display
"Memory"	Select the built-in memory for storage medium. So you can record or play back images on the built-in memory (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)).	IN
"Card"	Select a memory card for storage medium. So you can record or play back images on memory card.	

If there is no storage media inserted, it can not be selected and will be dimmed on the menu.

Storage Info

It shows you the storage information. You can view the storage media, used memory space and available memory space.

settings	contents	on-screen display
"Memory"	It shows you the memory information of built-in storage media (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)).	None
"Card"	It shows you the memory information of the inserted memory card.	None

If there is no storage media inserted, it can not be selected and will be dimmed on the menu.

Format

The format function completely deletes all files and options on the storage media, including protected files.
You can format (initialize) recording data in the storage media. You have to format the pre-used storage media or newly purchased memory cards with this memory camcorder before using them. This enables stable speeds and operation when accessing the recording medium.
Be aware that all files and data including protected files will be erased.

settings	contents	on-screen display
"Memory"	Formats the built-in storage media (8GB(SMX-F33(2)BP/LP/RP/SP only)/16GB(SMX-F34(0)BP/LP/RP/SP only)).	None
"Card"	Formats the memory card.	None

- Do not remove the recording medium or perform any other operation (such as turning off the power) during format. Also, be sure to use the provided AC power adaptor, as the recording medium may be corrupted if the battery becomes exhausted during format. If the recording medium becomes corrupted, format it again.
- A memory card with the protection tab set to lock will not be formatted. ➥page 41
- If there is no storage media inserted, it can not be selected. Then it will be dimmed on the menu.

WARNING
Do not format the recording medium on the PC or a different device.
Make sure to format the recording medium on the memory camcorder.

File No.

File numbers are assigned to recorded files in the order they were recorded.

settings	contents	on-screen display
"Series"	Assigns file numbers in sequence even if the memory card is replaced with another one or after formatting, or after deleting all files. The file number is reset when a new folder is created.	
"Reset"	Resets the file number to 0001 even after formatting, deleting all files or inserting a new memory card.	

When you set **"File No."** to **"Series"**, each file is assigned with a different number so as to avoid duplicating file names. It is convenient when you want to manage your files on a PC.

Time Zone

You can easily set the clock to the local time when using your memory camcorder while traveling.

settings	contents	on-screen display
"Home"	The clock will be used according to your setting on the **"Date/Time Set"** menu. Select it when using this memory camcorder for the first time or when returning the clock to your hometown date/time setting.	
"Visit"	When you visit a different time zone, it allows you to use the local time without changing your hometown time setting. The clock will be adjusted in accordance with the time difference between the two locations.	

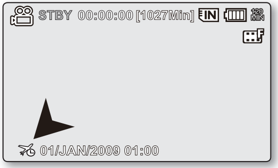
Setting the clock to the local time ("Visit")

You can easily set the clock to the local time zone when traveling.

1. Press the **Control** button (∧ / ∨) to select the **"Time Zone"** in Settings mode, and then press the **OK** button.
- Time Zone screen will be displayed.

2. Select **"Visit"** with the **Control** button (∧ / ∨) , and then select your local area using the **Control** button (< / >).
- You can check the time difference between **"Home"** and **"Visit"**.

3. Press the **OK** button to confirm.
- The clock is set to the time zone of the place you are visiting.
- When **"Date/Time" : "On"** is set, the icon ( ) will be displayed next to the date and time display. ➥page 86



You can set the date and time in **"Date/Time set"** from the **"Settings"** menu. ➥page 36

Cities used to set the time zone

Cities	Cities
London, Lisbon	Adelaide
Rome, Paris, Berlin, Stockholm, Madrid, Frankfurt	Guam, Sydney, Brisbane
Athens, Helsinki, Cairo, Ankara	Solomon Islands
Moskva, Riyadh	Wellington, Fiji
Teheran	Samoa, Midway
Abu Dhabi, Muscat	Honolulu, Hawaii, Tahiti
Kabul	Alaska
Tashkent, Karachi	LA, San Francisco, Vancouver, Seattle
Calcutta, New Delhi	Denver, Phoenix, Salt Lake City
Almaty, Kathmandu	Chicago, Dallas, Houston, Mexico City
Dacca	New York, Miami, Washington D.C., Montreal, Atlanta
Yangon	Caracas, Santiago
Bangkok	Buenos Aires, Brasilia, Sao Paulo
Hong Kong, Beijing, Taipei, Singapore, Manila	Fernando de Noronha
Seoul, Tokyo, Pyongyang	Azores, Cape Verde

Date/Time Set

Set the current date and time so that the date and time at which you make a recording can be recorded correctly. ➥page 36

Date Type

You can select the Date Type to display.

settings	contents	on-screen display
"2009/01/01"	The date is displayed in the order of year / month / date.	-
"01/JAN/2009"	The date is displayed in the order of date / month / year.	-
"JAN/01/2009"	The date is displayed in the order of month / date / year.	-
"01/01/2009"	The date is displayed in the order of date / month / year.	-

Time Type

You can select the Time Type to display.

settings	contents	on-screen display
"12 Hr"	The time is displayed as the unit of 12 hours.	-
"24 Hr"	The time is displayed as the unit of 24 hours.	-

Date/Time Display

You can set to display date and time on the LCD monitor.

- Before you use the **"Date/Time"** function, you must set the **"Date/Time Set"**. ➥page 36

settings	contents	on-screen display
"Off"	The date and time are not displayed.	None
"Date"	The date is displayed.	**01/JAN/ 2009**
"Time"	The time is displayed.	**00:00**
"Date & Time"	The date and time are displayed.	**01/JAN/ 2009 00:00**

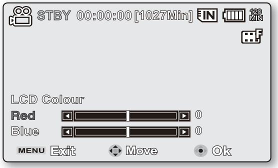
- The date/time will be read **"01/JAN/2009 00:00"** in the following conditions:
  - The movie (or photo) recording was made before setting the date/time in the memory camcorder.
  - The built-in rechargeable battery becomes weak or dead.
- This function depends on **"Date Type"** setting.

LCD Brightness

- You can adjust the brightness of the LCD screen to compensate for ambient lighting conditions.
- Press the **Control** button (>) will brighten the screen whereas press the **Control** button (<) will darken the screen.

- A brighter LCD screen setting consumes more battery power.
- If you adjust the LCD brightness when the ambient lighting is too bright, it is hard to see the monitor indoor.
- LCD Brightness does not affect the brightness of images to be stored.
- You can adjust the LCD Brightness from -15 to 15.

LCD Colour



- You can change the colour impression of the screen with a variety of colour options by adjusting the colour rate of red and blue.
- When you set red and blue colour range, the higher the figures the brighter the LCD monitor will be.
- You can adjust the LCD colour (red/blue) from -15 to 15, using the **Control** button (< / >).

Setting the LCD Colour does not affect recordings.

Beep Sound

You can set the beep sound to on/off. If there is a beep sound when operate the menu settings, the setting is turned on.

settings	contents	on-screen display
"Off"	Disables the function	
"On"	When on, a beep will sound every time a button is pressed.	

- When beep sound is set to off, the power on/off sound is off.
- The beep sound is off while recording.
- If you insert AV jack into the memory camcorder, beep sound will be automatically off.

Shutter Sound

You can turn the shutter sound on or off.

settings	contents	on-screen display
"Off"	Cancels the shutter sound.	None
"On"	When on, the shutter will sound with each press of the PHOTO button.	None

settings options

Auto Power Off

To save battery power, you can set the **"Auto Power Off"** function which turns off the memory camcorder if there is no operation for a certain period of time.

settings	contents	on-screen display
"Off"	The memory camcorder does not turn off automatically.	
"5 Min"	For power saving purposes, the memory camcorder will automatically turn power off if there is no operation for 5 minutes only in STBY mode or in thumbnail index view.	

Auto Power Off does not work at following situations.
- When a USB cable is connected.
- When the memory camcorder is connected to the AC adaptor.
  (And it cannot be selected and will be dimmed on the menu.)

TV Display

You can select the output path of the OSD (On Screen Display).

settings	contents	on-screen display
"Off"	The OSD appears in the LCD screen only.	
"On"	The OSD appears in the LCD screen and TV. (Connecting to a TV ➥page 99)	

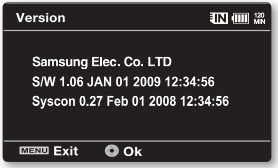
Default Set

You can initialize your memory camcorder settings to the factory defaults (initial settings at the factory).
Initializing the memory camcorder settings to factory defaults does not affect recorded images.

After resetting the memory camcorder, set **"Time Zone"** and **"Date/Time Set"**. ➥page 36

Version

The version information could be changed without the noticement.



Menu Design

You can select the desired menu colour to display the menu.

- **"Mystic White" → "Premium Black "**

Transparency

You can select the desired transparency to display the menu.

- **"0%" → "20% " → "40%" → "60%"**

<Transparency 0%>

<Transparency 60%>

Language

You can select a desired language to display the menu and messages. ➥page 38

Demo

Demonstration automatically shows you the major features that are included with your memory camcorder so that you may use them more easily.

settings	contents	on-screen display
"Off"	Disables the function	
"On"	Activates demonstration mode and shows various features on the LCD screen.	

- Demonstration starts in the following cases:
  - Right after **"Demo"** is set to **"On"**
  - With **"Auto Power Off"** set to **"Off"**, if there is no operation for about 5 minutes in the STBY mode.
- Demonstration stops temporarily by pressing other buttons (**MENU**, **Control** button, **Recording start/stop**, etc).
- When the Auto Power Off function is set to **"5 Min"**, the Auto Power Off function works with priority rather than Demo function. If you execute Demo function, release the Auto Power Off function. ➥page 88
- Press and hold **MENU** button for 5 seconds in STBY mode to run the Demo function immediately.

connecting to a PC

✪ This chapter explains how to connect a PC using the USB cable for various actions.
- To connect an USB cable to a PC, refer to the software installation instructions and available PC specification.

TRANSFERRING A RECORDED FILE THROUGH A USB CONNECTION

- The camcorder supports both USB 1.1 and 2.0 standards. (Depends on the PC specification)
- You can transfer a recorded file on a storage media to your PC via a USB connection.

USB Connection Speed depending on the System

- High speed USB connection is supported by Microsoft (Windows) device drivers only.
- Windows 2000 - High speed USB on a system with Service Pack 4 or later installed.
- Windows XP - High speed USB on a system with Service Pack 1 or later installed.
- Windows VISTA - High speed USB on a system with Service Pack 1 or later installed.

Cyberlink MediaShow4

System Requirements

The following requirements must be satisfied to use CyberLink MediaShow4.

CPU	Intel® Pentium ®4, at least 3.0 GHz/AMD recommended
OS (Operating System)	Windows Vista or XP (Windows XP Service Pack 2) * Standard installation is recommended. Operation may not assured if the above OS has been upgraded.
RAM	512MB (1 GB and above recommended)
Resolution	800 x 600, 16-bit colour or higher
USB	USB2.0 High Speed
VGA	Intel® 945GM or faster NVIDIA Geforce 6600 or higher ATI Radeon X1600 or higher - On a low performance graphics system, running the MediaShow4 may cause error or not apply some of animation effects.
Miscellaneous	Internet Explorer 5.5 or later DirectX 9.0 or later
Supported media	DVD+R/RW, DVD-R/RW For the compatible DVD/CD burners, refer to CyberLink web site: http://www.gocyberlink.com/english/products/powerproducer/2_gold/comp_dvd_drives.jsp

- System requirements mentioned above are recommendations. Even on a system that satisfies the requirements operation is not ensured depending on the system.
- On a Macintosh computer, you can also transfer data by connecting the USB cable, but the provided CyberLink MediaShow4 is not Macintosh-compliant. On a Macintosh computer, you can upload recordings using the iMovie application.
- This memory camcorder can be used only as a removable storage device for the computers with Macintosh (OS version 10.3 or later) and Windows 2000.

- On a slower PC than recommended, movie playback may skip frames or operate unexpectedly.
- If your OS is Windows XP/Vista, log in as the Administrator (administrator of the PC) (or a user with the equivalent privileges) to install the software.
- Check out the storage media of the memory camcorder before connecting USB cable. If no memory card or an unformatted memory card is inserted, the PC will not recognise your memory camcorder as a removable disk.
- If you disconnect the USB cable from the PC or the memory camcorder during the data transfer, the data transfer will stop and the data may be damaged.
- If you connect the USB cable to a PC using a USB HUB or with other devices at the same time, it may cause conflict and may not work properly. If this occurs, remove all other USB devices and try the connection again.
- Intel® Pentium III® or Pentium ®4 is a trademark of the Intel Corporation.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.
- CyberLink MediaShow4 is optimised for Intel Core 2 Duo processors and CPUs with MMX, SSE, SSE2, 3DNow!, and Intel HyperThreading technology.
- DirectX is necessary so that CyberLink MediaShow4 works properly and it is automatically installed during CyberLink MediaShow4 installation.
- We recommend using the AC power adaptor as the power supply instead of the battery pack.

connecting to a PC

INSTALLING THE CYBERLINK MEDIASHOW4

CyberLink MediaShow4 is a software for easy of editing MPEG, AVI, and other video files, still images, and other contents for creating a movie. This software has an interface that allows editing in either timeline or storyboard mode, maintains superior image quality, uses SVRT (Smart Video Rendering Technology) for high-speed rendering, and has a host of other advanced video editing features. This manual only refers to software installation and PC connection. For more details on software, refer to the “Online help/Readme” on the CyberLink MediaShow4 CD.

Before you begin:

Quit any other software you are using.

(Check that there are no other application icons on the status bar.)

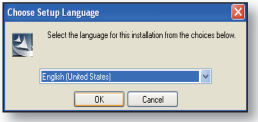
1. Load the provided CyberLink MediaShow4 CD-ROM into the PC.
   - The setup screen appears several seconds.
     If the setup screen does not appear, double click the CD-ROM icon in the “My Computer” window.
   - Click “Install Now.”

2. Select the desired language and click “OK”

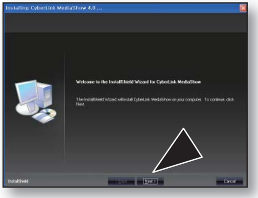
3. "Installing CyberLink MediaShow 4.0..." screen appears.
   - Click “Next”

4. "License Agreement" screen appears.
   - Click “Yes”

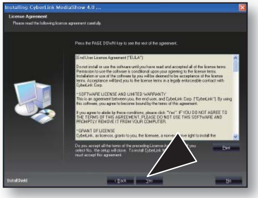
2



3



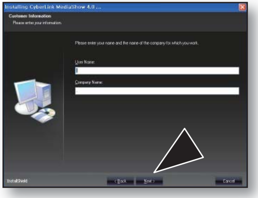
4



5. "Customer Information" screen appears.

- Click "Next."

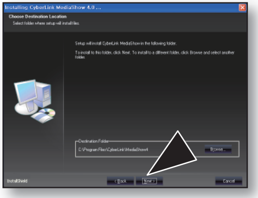
5



6. "Choose Destination Location" screen appears.

- Choose the destination location which you want to install.
- Click "Next."

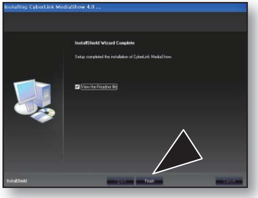
6



7. "Setup Complete" appears.

- Click "Finish."
- The icon of "CyberLink MediaShow4" is created on the desktop.

7



- If you perform installation of software that is already installed, uninstallation will start.
  In this case, perform the installation again after uninstallation is finished.
- This manual only refers to software installation and PC connection.
  For more details on software, refer to the "Online help/Read me" on the CyberLink MediaShow4 CD.

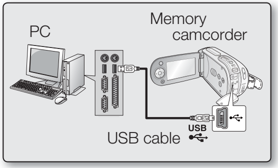
connecting to a PC

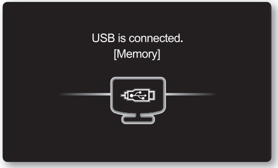
CONNECTING THE USB CABLE

Connect the USB cable to copy movie (or photo) images in a recording medium to the PC and vice versa.
When the USB cable is connected in Record / Play mode, the product will switch to USB mode immediately.

1. Connect the memory camcorder to the PC with a USB cable.

- Don’t apply excessive force when inserting or extracting a USB jack.
- Insert a USB jack after checking the direction of its insertion is correct.
- It is recommended to use the AC adaptor as the power supply instead of the battery pack.
- When the USB cable is connected, turning on or off the camcorder causes malfunctions of the PC.





Disconnecting the USB cable

Before loading or unloading recording mediums or turning off the PC, first disconnect the USB cable and turn off the memory camcorder. After completing the data transmission, you must disconnect the cable in the following way:

1. Click the "Unplug or eject hardware" icon on the task tray.
2. Select "USB Mass Storage Device" or "USB Disk," and then click "Stop."
3. Click "OK."
4. Disconnect the USB cable from the memory camcorder and PC.

- If you disconnect the USB cable from the PC or the memory camcorder while transferring, the data transmission will stop and the data may be damaged.
- If you connect the USB cable to a PC via a USB HUB or simultaneously connect the USB cable along with other USB devices, the memory camcorder may not work properly. If this occurs, remove all USB devices from the PC and reconnect the memory camcorder.

VIEWING THE CONTENTS OF STORAGE MEDIA

1. Slide the **POWER** switch downward to turn on the memory camcorder.
   - Set the appropriate storage media. ➥page 39 (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card)
2. Connect the memory camcorder to the PC with a USB cable. ➥page 94
   - Check out the USB connection on the LCD monitor.

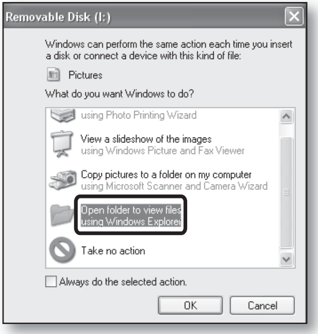
   When using Windows® XP,Vista version :
   - The "Removable Disk" window appears on the PC's screen after a moment.
   - Select "Open folders to view files using Windows Explorer" and click "OK."

   When using Windows® 2000:

   a. Double-click the "My Computer" icon on the desktop.
   The "Removable Disk" icon which represents the storage media in the memory camcorder appears in the "My Computer" window.

   b. Doubleclick the "Removable Disk" icon.
3. The folders in the storage media appear.
   - Different file types are stored in different folders.

- If the "Removable Disk" window does not appear, confirm the connection (page 94) or perform the steps 1 and 2.
- When the removable disk does not appear automatically, open the removable disk folder of My Computer.
- Your PC can recognise only one storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card) from the camcorder at a time. If you cannot find the removable disk of your choice, change the storage setting (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card) of your camcorder. ➥page 39



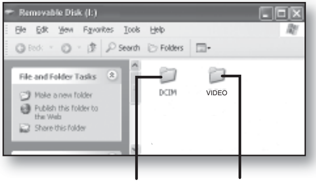


Photo images Movie images

Structure of folders and files on the storage media

- The folder and file structure for built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card is as follows.
- Don’t arbitrarily change or remove the folder or file name. It may not be playable.

Movie Images (H.264) ①

The SD-quality movie images are named as “SDV_####.MP4” and Web movie images are named as “WEB_####.MP4”. The file number automatically increases when a new movie image file is created. Up to 9999 files are created in one folder. A new folder is created when more than 9999th files are created.

Photo Images ②

As in movie image files, the file number automatically increases when a new image file is created. The maximum file number allowed is the same as in movie image files. A new folder stores files from CAM_0001.JPG. The folder name increases in the order of 100PHOTO → 101PHOTO etc. Up to 9999 files are created in one folder. A new folder is created when more than 9999th files are created.

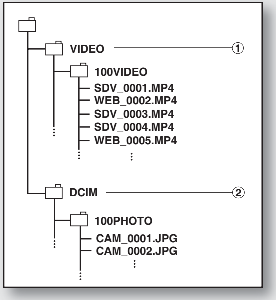


Image format

Movie Images

- Movie images are compressed in H.264 format. The file extension is **".MP4."**
- The image size is 720X576(50i) or 640x480(WEB). ➥page 66

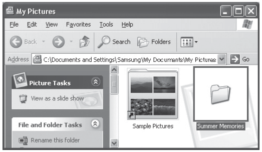
Photo Images

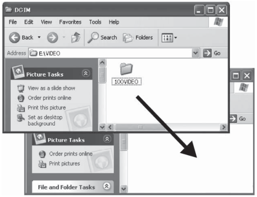
- Photo images are compressed in JPEG (Joint Photographic Experts Group) format. The file extension is **".JPG."**
- The image size is 800x600.

- When the 9999th file is created in the 999th folder (i.e. SDV_9999.MP4 is created in the 999 VIDEO folder), a new folder cannot be created anymore. Backup your files to a PC and format the storage media, and then reset file numbering from the menu.
- We don't recommend you to modify the name of a file/folder stored in the storage media using a PC. If you modify it, this memory camcorder may not recognise modified files.
- You can use your memory camcorder as a mass storage device. So you can store general data in the storage media of the memory camcorder.
- The photo image is taken only in the 4:3 aspect ratio.

TRANSFERRING FILES FROM THE MEMORY CAMCORDER TO YOUR PC

You can copy the movie (or photo) images to your PC and play back those.





1. Execute the procedure in "VIEWING THE CONTENTS OF STORAGE MEDIA." ➥page 95
   - The folders in the storage media appear.
2. Create a new folder, enter the folder name, and then double-click it.
3. Select the folder to copy, and then drag and drop it into the destination folder.
   - The folder is copied from the storage media (Built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card) to the PC.
   - Do not move or rename the camcorder's folders and files after transferring them. If you change the basic name of folders and files, your memory camcorder will no longer recognise them and they will not be played.
   - If your camcorder can not recognise the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or your memory card, you should format it using the camcorder.

Playing Back Files on the PC

Use the provided software (CyberLink MediaShow4) to play back the movie images in the PC.
The movie images recorded on your memory camcorder may not be played back in other software.

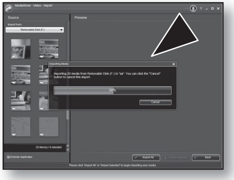
- On a Macintosh computer, you can also transfer data by connecting the USB cable, but the provided CyberLink MediaShow4 software is not Macintosh-compliant. On a Macintosh computer, you can upload recordings using the iMovie application.
- This memory camcorder can be used only as a removable storage device for the computers with Macintosh (OS version 10.3 or later) and Windows 2000.

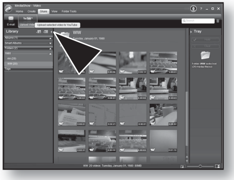
UPLOADING MOVIE IMAGES IN THE MEMORY CAMCORDER TO YouTube

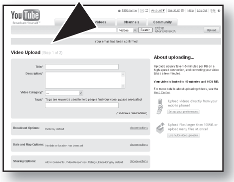
You can connect to PC and direct upload to YouTube by software (CyberLink MediaShow4).
If you are a Mac user, you can upload your content to YouTube using iMovie.

1. Connect the memory camcorder to the PC with a USB cable. ➥page 94
2. Install CyberLink MediaShow4 (provided) and, when done, enter Video mode. ➥pages 92, 93
   - Running the CyberLink MediaShow4 for the first time may display registration screen.
3. Click Import in the main screen.
   - Open a folder from the left removable disk and select files of your choice.

4. Then, click **Import all** or **Import selected** to start importing movie image files.
   - All or selected files are uploaded according to your choice.
   - Click Back to return home.
5. Click the YouTube shortcut icon in the **Share** tab.
   - You will see the login or subscription dialog box.
   - First, log into a YouTube site and click Upload on the top right corner of the main menu.
6. The Video Upload window appears where you can follow the screen instructions to upload movie images in sequence.







YouTube Broadcast Yourself™

- YouTube is a video sharing website where users can upload, view and share video clips.
  The San Bruno-based service uses Adobe Flash technology to display a wide variety of user-generated video content, including movie clips, TV clips and music videos, as well as amateur content such as video blogging and short original videos.
- http: //www.youtube.com/

connecting to other devices

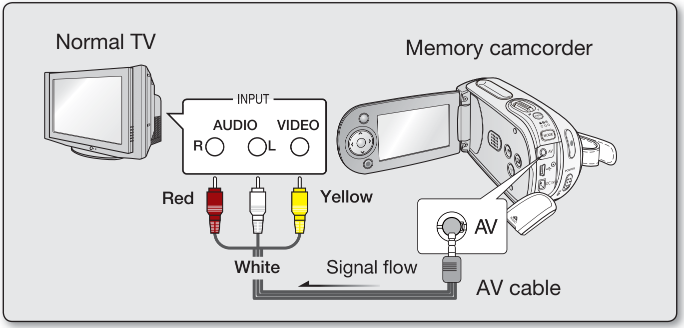
You can view the recorded movie and photo images on a large screen by connecting the memory camcorder to a TV.

CONNECTING TO A TV

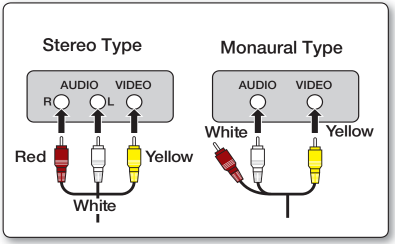
- To playback your recordings, the television must be PAL compatible. ➥page 105
- We recommend that you use the AC power adaptor as the power source for the memory camcorder.

Use the provided AV cable to connect the memory camcorder to a TV as follows:

1. Connect the end of the AV cable with the single plug to the AV jack of the memory camcorder.
2. Connect the other end with video (yellow) and left (white)/ right (red) audio cables to the TV.

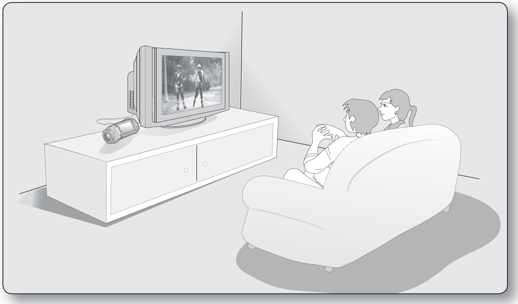


- For more information about the connection, refer to your TV's user manual.
- Before connecting, make sure that the volume on TV is turned down: forgetting this may cause howling from the TV speakers.
- Carefully connect the input and output cables to the corresponding connections on the device the memory camcorder is being used with.



VIEWING ON TV SCREEN

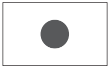
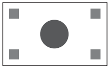
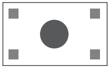
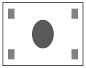
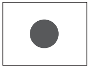
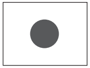
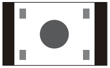
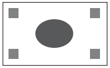
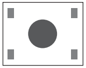
1. Turn on the TV and set the input selector to the Input connection the memory camcorder is connected to.
   - This is often referred to as "line".
     Refer to the TV instruction manual for how to switch the TV input.
2. Turn the memory camcorder on.
   - Slide the **POWER** switch downward and press the **MODE** button to set Play (▶). ➥ page 22
   - The image that the memory camcorder is viewing will appear on the TV screen.
   - You can also monitor the image on the LCD screen of the memory camcorder.
3. Perform playback.
   - You can perform playback, recording or setting the menu while viewing on TV screen.



- Information that the memory camcorder is recording will appear on the TV screen: You can also display only part of information or switch off the display. Refer to "TURNING THE SCREEN INDICATORS ON/OFF ([display icon])" on page 30, and press the [display icon] / iCHECK button to switch the display status.
- When **"TV Display"** is set to **"Off "**, OSD (On-Screen-Display) does not appear on the TV screen. ➥page 88
- Howling may occur when the memory camcorder is too close to the other devices or the volume is high.
  Keep the memory camcorder a reasonable distance away from the other connected devices.
- When the AV cable is connected to the memory camcorder, the built-in speaker will automatically turn off and you can not adjust the volume bar.

Image display depending on LCD and TV screen ratio

■ Icon ● Subject

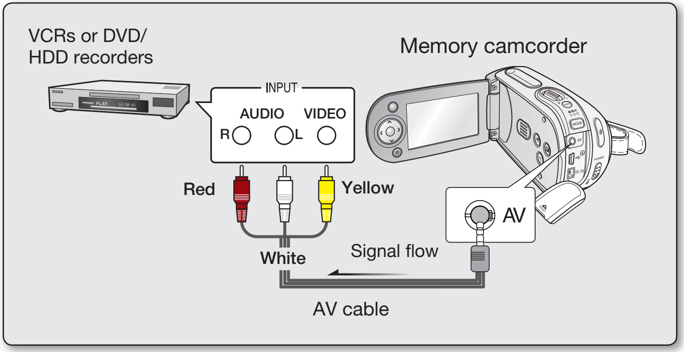
	Record	Photo	LCD	TV 16:9	TV 4:3
16:9 (Movie images only)		-			
4:3					

Refer to page 66 for **"16:9 Wide"** setting.

RECORDING (DUBBING) IMAGES ON A VCR OR DVD/HDD RECORDER

You can record (dub) images played back on this memory camcorder onto other video devices, such as VCRs or DVD/HDD recorders. Use the AV cable (provided) to connect the memory camcorder to another video device as shown in the following diagram:

1. Press the **MODE** button to set Play (▶). ➥page 22
2. Choose the recorded (dubbed) images on the thumbnail view and then press the **OK** button.
3. Press the record button on the connected device.
    - The memory camcorder will start playback and the recording device will record (dub) it.



- Be sure to use the AC adaptor to power the memory camcorder from household AC outlet to prevent battery power from shutting off during recording on another video device.
- To prevent recording OSD (information) displayed along with AV signal, set the **"TV Display"** to **"Off"** in Menu Settings. ➥page 88

MAINTENANCE

Your memory camcorder is a product of superior design and craftsmanship and should be treated with care.
The suggestions below will help you fulfil any warranty obligations and allow you to enjoy this product for many years.

✪ For safekeeping of the memory camcorder, turn off the memory camcorder.
- Remove the battery pack and AC power adaptor. ➥page 14
- Remove the memory card. ➥page 40

Cautions on Storing

- **Do not leave the memory camcorder in a place where the temperature is very high for a long period of time:**
  The temperature inside a closed vehicle or trunk can become very high in a hot season. If you leave the memory camcorder in such a place, it could malfunction or the case could be damaged. Do not expose the memory camcorder to direct sunlight or place it near a heater.
- **Do not store the memory camcorder in a place where the humidity is high or in a dusty place:**
  Dust entering the memory camcorder could cause malfunctions. If humidity is high, the lens could become mouldy, and the memory camcorder could become inoperative. It is recommended that you put the memory camcorder in a box together with a desiccant when storing it in a closet, etc.
- **Do not store the memory camcorder in a place subject to strong magnetism or intense vibrations:**
  This could cause malfunctions.
- **Detach the battery pack from the memory camcorder and store it in a cool place:**
  Leaving the battery pack attached or storing it at high temperature could shorten its life.

Cleaning the memory camcorder

✪ Before cleaning, turn off the memory camcorder and remove the battery pack and AC power adaptor.

- **To clean the exterior**
  - Wipe gently with a soft dry cloth. Do not apply excessive force when cleaning, gently rub the surface.
  - Do not use benzene or thinner to clean the camcorder. The coating of exterior could peel off or the case could deteriorate.
- **To clean the LCD monitor**
  Wipe gently with a soft dry cloth. Be careful not to damage the monitor.

- **To clean the lens**
  Use an optional air blower to blow out dirt and other small object. Do not wipe the lens with cloth or your fingers. If necessary, wipe gently with lens cleaning paper.
  - Mould may form if the lens is left dirty.
  - If the lens looks dimmer, turn off the memory camcorder and leave it for about 1 hour.

ADDITIONAL INFORMATION

Storage media

- **Be sure to follow the guidelines below to prevent corruption or damage to your recorded data.**
  - Do not bend or drop the storage media, or subject it to strong pressure, jolts or vibrations.
  - Do not splash the storage media with water.
  - Do not use, replace, or store the storage media in locations that are exposed to strong static electricity or electrical noise.
  - Do not turn off the camcorder power or remove the battery or AC power adaptor during recording, playback, or when otherwise accessing the storage media.
  - Do not bring the storage media near objects that have a strong magnetic field or that emit strong electromagnetic waves.
  - Do not store the storage media in locations with high temperature or high humidity.
  - Do not touch the metal parts.
- **Copy the recorded files to your PC. Samsung shall not be responsible for any lost data. (It is recommended that you copy the data from your PC to other media for storage.)**
- **A malfunction may cause the storage media to fail to operate properly. Samsung will not provide any compensation for any lost contents.**
- **Refer to pages 39-45 for details.**

LCD screen

- **To prevent damage to the LCD screen**
  - Do not push it too hard or knock it on anything.
  - Do not place the camcorder with LCD screen on the bottom.
- **To prolong service life, avoid rubbing it with a coarse cloth.**
- **Be aware of the following phenomena for LCD screen use. They are not malfunctions.**
  - While using the camcorder, the surface around the LCD screen may heat up.
  - If you leave power on for a long time, the surface around the LCD screen becomes hot.

Battery packs

The supplied battery pack is a lithium-ion battery. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:

- **To avoid hazards**
  - Do not burn.
  - Do not short-circuit the terminals. When transporting, carry the battery in a plastic bag.
  - Do not modify or disassemble.
  - Do not expose the battery to temperatures exceeding 60°C (140°F), as this may cause the battery to overheat, explode or catch fire.
- **To prevent damage and prolong service life**
  - Do not subject to unnecessary shock.
  - Charge in an environment where temperatures are within the tolerances shown below.
    This is a chemical reaction - cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.
  - Store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
  - Fully charge the battery pack at least every 6 months when storing the battery pack over a long period of time.
  - Remove the battery pack and charger from the camcorder when not in use, as the camcorder will use current even when switched off.

- It is recommended that only genuine **Samsung** batteries are used in this camcorder.
  Using generic non-**Samsung** batteries can cause damage to the internal charging circuitry.
- It is normal for the battery pack to be warm after charging, or after use.
  Temperature range specifications
  - Charging: 10°C to 35°C (50°F to 95°F)
  - Operation: 0°C to 40°C (32°F to 104°F)
  - Storage: -20°C to 60°C (-4°F to 132°F)
- The lower the temperature, the longer recharging takes.
- **Refer to pages 14-20 for detail.**

USING YOUR MEMORY CAMCORDER ABROAD

- Each country or region has its own electric and colour systems.
- Before using your memory camcorder abroad, check the following items.

Power sources

The provided AC adaptor features automatic voltage selection in the AC range from 100 V to 240 V. You can use your camcorder in any countries/regions using the AC power adaptor supplied with your camcorder within the AC 100 V to 240 V, 50/60 Hz range. Use a commercially available AC plug adaptor, if necessary, depending on the design of the wall outlet.

On TV colour systems

Your camcorder is an **PAL-**system-based camcorder. If you want to view your recordings on a TV or to copy it to an external device, it must be an **PAL-**system-based TV or an external device having the appropriate Audio/Video jacks. Otherwise, you may need to use a separate video format transcoder (PAL-NTSC format converter).

PAL-compatible countries/regions
Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Netherlands, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway, Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

NTSC-compatible countries/regions
Bahamas, Canada, Central America, Japan, Korea, Mexico, Philippines, Taiwan, United States of America, etc.

You can make recordings with your memory camcorder and view pictures on the LCD screen from anywhere in the world.

TROUBLESHOOTING

✪ **Before contacting a Samsung authorized service centre, perform the following simple checks. They may save you the time and expense of an unnecessary call.**

Warning indicators and messages

Power source

Message	Icon	Informs that...	Action
Low Battery	-	The battery pack is almost discharged.	Change to a charged one or use AC power adaptor. Charge the battery pack.
Auto Power Off	-	If no button is pressed for about 5 minutes, the memory camcorder is automatically turned off .	To disable this option, change the setting of **"Auto Power Off"** to **"Off"** ➥page 88

Storage media

Message	Icon	Informs that...	Action
Memory Full		There is not enough space to record on built-in memory.	• Delete unnecessary files on the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)). Use a memory card. • Back-up files to your PC or another storage media and delete files.
Insert Card		There is no memory card inserted in the card slot.	Insert a memory card.
Card Full		There is not enough space to record on memory card.	• Delete unnecessary files on the memory card. Use the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)). • Back-up files to your PC or another storage media and delete files. • Change another memory card which has enough free space.

Message	Icon	Informs that...	Action
Card Error		The memory card has some problem and can not be recognised.	Format the memory card or replace it with a new one.
Card Locked		The write protection tab on an SDHC card has been set to lock.	Release write protection tab.
Not Supported Card		The memory card is not supported in this camcorder.	Change the memory card that we recommended.
Please format!		The memory card is not formatted.	Format the memory card using menu item.
Not formatted. Format the Card? (Format the memory?)	-	The format of the file is not supported by this memory camcorder.	• The file format is not supported. Check the supported file. • Format the memory card using menu item.
Low speed card. Please record a lower resolution.	-	The memory card does not have enough performance to record.	• Record movie at a lower resolution. • Change memory card to faster one. ➥ page 41

Recording

Message	Icon	Informs that...	Action
Check the lens cover		Lens cover is closed.	Open the lens cover.
Write Error	-	Some problems occured while writing data to storage media.	Format storage media using menus after backing-up important files to your PC or another storage media.
Release the EASY Q	-	You can not operate some functions manually when EASY Q is activated.	Release EASY Q function.
The Number of video files is full. Cannot copy videos.	-	Folder and file number reached to its limitation and you can not record.	Format storage media using menu item after backup important files to PC or another storage device. Set **"File No."** to **"Reset."**
The Number of photo files is full. Cannot copy photos.	-	Folder and files have reached capacity and you can not take a picture.	Format storage media using menu item after backup important files to PC or another storage device. Set **"File No."** to **"Reset."**

Playback

Message	Icon	Informs that...	Action
Read Error	-	Some problems occurred during reading data from storage media.	Format storage media using menus after back-up important files to PC or another storage device.

CAUTION

When there is condensation, put aside for a while before using

- What is condensation?
  Condensation happens when a memory camcorder is moved to a place where there is a significant temperature difference from the previous place. In other words, the water vapour in the air turns into dew because of the temperature difference, and it condensates like dew on the external or internal lenses of the memory camcorder and on the reflection lens.
  When this happens, you temporarily may not use the record or play functions of the memory camcorder. Also, it may cause a malfunction or damage to the memory camcorder when using the device with the power on while there is condensation.
- What can I do?
  Turn the power off and detach the battery pack, and leave it in a dry area for 1~2 hours before using it.
- When does the condensation occur?
  When the device is relocated to a place with a higher temperature than the previous location, or when using it in a hot area suddenly, it will cause condensation.
  - When recording outside in cold weather during the winter and then using it in indoors.
  - When recording outside in hot weather after being indoors or inside a car where the AC was running.

Note before sending your camcorder for repair.

- If these instructions do not solve your problem, contact your nearest Samsung authorized service centre.
- Depending on the problem, current hard disk may need to be initialized or replaced and the data will be deleted. Be sure to back up the data on the hard disk on the other storage media before sending your camcorder to repair. Samsung cannot guarantee any loss of your data.

✪ **If you encounter any problem using your camcorder, check the followings before asking for service repair. If these instructions do not solve your problem, contact the nearest Samsung authorized service centre.**

Symptoms and solutions

Power

Symptom	Explanation/Solution
The camcorder does not turn on.	• The battery pack may not be installed on your memory camcorder. Insert a battery pack to the memory camcorder. • The inserted battery pack may be discharged. Charge the battery pack or replace it with a charged one. • If you use an AC power adaptor, make sure it is properly connected to the wall outlet.
The power automatically turns off.	• Is **"Auto Power Off"** set to **"5 Min"**? If no button is pressed for about 5 minutes, the memory camcorder is automatically turned off (**"Auto Power Off"**). To disable this option, change the setting of **"Auto Power Off"** to **"Off"** ➥page 88 • The battery pack is almost discharged. Charge the battery pack or replace it with a charged one. • Use the AC Power adaptor.
Power cannot be turned off .	• Remove the battery pack or unplug the AC power adaptor, and connect the power supply to the camcorder again before turning it on.
The battery pack is quickly discharged.	• The temperature in the use condition is too low. • The battery pack is not fully charged. Charge the battery pack again. • The battery pack reached its lifespan and cannot be recharged. Use another battery pack.

troubleshooting

Displays

Symptom	Explanation/Solution
The Recorded Image is more narrow or fat than original image.	• You should check the size for recording before you record. ➥page 66
Unknown image appears on the LCD screen.	• The memory camcorder is in Demo mode. If you do not want to see Demo image, change the setting of **"Demo"** to **"Off"**. ➥page 89
Unknown indicator appears on the screen.	• A warning indicator or message appears on the screen. ➥pages 106~108
The after image remains on the LCD screen.	• This occurs if you disconnect the AC power adaptor or remove the battery pack before turning the power off.
The image on the LCD screen looks dark.	• Ambient is too bright. Adjust the brightness and angle of LCD. • Use the LCD enhancer function.

troubleshooting

Storage Media

Symptom	Explanation/Solution
Memory card functions are not operable.	• Insert a memory card into your camcorder properly. ➥page 40 • If you use a memory card formatted on a computer, format it again directly on your camcorder. ➥page 77
Image cannot be deleted.	• You cannot delete the images protected by other device. Release the protection of the image on the device. ➥page 83 • Release the lock on the write-protect tab of the memory card (SDHC memory card, etc.), if any. ➥page 41
You cannot format the memory card.	• Release the lock on the write-protect tab of the memory card (SDHC memory card, etc.), if any. ➥page 41 • Copy any important recorded files to your PC before formatting. Samsung shall not be responsible for any loss of data. (It is recommended that you copy the data to your PC or other storage media.)
The data file name is not indicated correctly.	• The file may be corrupted. • The file format is not supported by your camcorder. • Only the file name is displayed, if the directory structure does not comply with the international standard.
Does not charge or operate even the battery pack is inserted.	• Check whether the battery pack is genuine. Non-genuine battery pack is not recognised properly by the memory camcorder.

Recording

Symptom	Explanation/Solution
Pressing the **Recording start/ stop** button does not start recording.	• Press the **MODE** button to set Movie Record mode ( ). • There is not enough free space to record on the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) or memory card. • Check if memory card is not inserted or write-protect tab is set to lock. • The internal temperature of your camcorder is unusually high. Turn off your camcorder and leave it for a while in a cool place. • Your camcorder is damp and moist inside (condensation). Turn off your camcorder and leave it for about 1 hour in a cool place. ➥page 102
The actual recording time is less than the estimated time.	• The estimated recording time may vary depending on contents and features used. • Recording a fast-moving subject increases the bit rate and consequently the amount of storage space required for the recording, which can lead to a shorter available recording time.
The recording stops automatically.	• There is no more free space for recording on the storage media. Back up important files on your PC and format the storage media or delete the unnecessary files. • If you make a frequent recording or deletion of files, the performance of the built-in flash memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) will be deteriorated. In this case, format the built-in memory (8GB (SMX-F33(2)BP/LP/RP/SP only)/16GB (SMX-F34(0)BP/LP/RP/SP only)) again. • If you use the memory card with low writing speed, the memory camcorder automatically stops recording the movie images and the corresponding message appears on the LCD screen.
When recording a subject illuminated by bright light, vertical lines appear.	• The memory camcorder is unable to record these levels of brightness.

Recording

Symptom	Explanation/Solution
When the screen is exposed to the direct sunlight during recording, the screen becomes red or black for an instant.	• Do not leave the memory camcorder with the LCD screen exposed to direct sunlight.
During recording, the date/time does not display.	• **"Date/Time"** is set to off. Set the **"Date/Time"** to on. ➥page 86
The beep sound is not heard.	• Set **"Beep Sound"** to **"On".** • Beep sound is temporally off while recording movies. • When the AV cable is connected to the memory camcorder, the beep sound will automatically turn off.
There is a time difference between the point where you press **Recording start/stop** button and the point where the recorded movie starts/stops.	• On your camcorder, there may be a slight time delay between the point when you press **Recording start/stop** button and the actual point where the recorded movie starts/stops. This is not an error.
The recording stops.	• The internal temperature of your camcorder is unusually high. Turn off your camcorder and leave it for a while in a cool place. • Your camcorder is damp and moist inside (condensation). Turn off your camcorder and leave it for about 1 hour in a cool place. ➥page 102
You cannot record a photo image.	• Set your memory camcorder to Photo Record mode. ➥page 22 • Release the lock on the write-protection tab of the memory card if any. • The storage media is full. Use a new memory card or format the storage media. ➥page 83 Or remove unnecessary images. ➥page 75

Adjusting the image during recording

Symptom	Explanation/Solution
Focus does not adjust automatically.	• Set **"Focus"** to **"Auto"**. ➥page 62 • The recording conditions are not suitable for auto focus. Adjust the focus manually. ➥page 62 • The lens is dusty on the surface. Clear the lens and check the focus. • Recording is being made in a dark place. Light up to brighten the place.
The image appears too bright or flickering, or changes in colour.	• This occurs when recording images under a fluorescent lamp, sodium lamp, or mercury lamp. Cancel **"iSCENE"** to minimize this phenomena. ➥page 58
Colour balance of image is not natural.	• White balance adjustment is required. Set proper **"White Balance"**. ➥page 59
The backlight function does not function.	• While recording in EASY Q mode, the backlight function does not work.

troubleshooting

Playback on your memory camcorder

Symptom	Explanation/Solution
Using the playback (Play/Pause) button would not start playing.	• Press the **MODE** button to set Movie Play mode. (▶) • Image files recorded using other device may not be played on your memory camcorder. • Check out the memory card compatibility. ➥page 41
The Skip or Search function does not work properly.	• If the temperature inside the camcorder is too high, it can not function properly. Turn the camcorder off, wait for a few moments, and turn it on again.
Playback is interrupted unexpectedly.	• Check the AC adaptor or battery pack is properly connected and stable.
You cannot hear the sound when playing movie recorded by Time Lapse Recording.	• The Time Lapse recording does not support the sound input. (mute recording) ➥page 69
Photo images stored on a storage media are not displayed in the actual size.	• Photo images recorded on other device may not appear in the actual size. This is not an error.

Playback on other devices (TV, etc.)

Symptom	Explanation/Solution
You cannot view the image or hear the sound on the connected device.	• Connect the audio line of the AV cable to your camcorder or to the connected device (TV, DVD recorder, etc). (Red colour- right, White colour- left) • The AV cable is not connected properly. Make sure that the AV cable is connected to the proper jack. ➥page 99

Connecting to a computer

Symptom	Explanation/Solution
When using the movies, a computer does not recognise your camcorder.	• Install the provided software programme. ➥pages 92, 93 • Disconnect the USB device other than the keyboard, the mouse and the camcorder from the computer. • Disconnect the cable from the computer and camcorder, restart the computer, then connect them again correctly.
Cannot play a movie file properly on a PC.	• A video codec is needed to play the file recorded on your memory camcorder. Install the software provided with your camcorder. ➥pages 92, 93 Please install by using the software CD that came with this camcorder. We do not guarantee compatibility for different CD versions. • Make sure you insert the connector in the correct direction, and connect the USB cable to the USB jack on your camcorder firmly. • Disconnect the cable from the computer and camcorder, restart the computer. And connect it again properly.
Cannot use the provided software, "CyberLink MediaShow4", on the Macintosh computer.	• On a Macintosh computer, you can also transfer data by connecting the USB cable, but the provided CyberLink MediaShow4 is not Macintosh-compliant. On a Macintosh computer, you can upload recordings using the iMovie application. • This memory camcorder can be used only as a removable storage device for the computers with Macintosh (OS version 10.3 or later) and Windows 2000.
"CyberLink MediaShow4" does not function properly.	• Exit the "CyberLink MediaShow4" programme, and restart the Windows computer.
The image or sound on your camcorder is not played on your computer properly.	• Movie playback or sound may stop temporarily depending on your computer. The movie or sound copied to your computer is not affected. • If your camcorder is connected to a computer that does not support Hi-speed USB (USB2.0), the images or sound may not be played back correctly. The images and sound is copied to your computer is not affected.
The playback screen is paused or distorted.	• Check the system requirements to play a movie. ➥page 90 • Exit other all applications running on the current computer. • If a recorded movie is played on your camcorder connected to a computer, the image may not play smoothly, depending on the transfer speed. Please copy the file to your PC, and then play it back.

troubleshooting

Connecting/Dubbing with other devices (TV, DVD recorder, etc)

Symptom	Explanation/Solution
You cannot dub correctly using the AV cable.	• The AV cable is not connected properly. Make sure that the AV cable is connected to the proper jack, i.e. to the input jack of the device used for dubbing an image from your camcorder. ➥page 99

Overall operations

Symptom	Explanation/Solution
The date and time are incorrect.	• Has the camcorder been left unused for a long period of time? The backup built-in rechargeable battery may be discharged. ➥page 37
The camcorder does not turn on, or does not operate by pressing any button.	• Remove the battery pack or unplug AC power adaptor, and connect the power supply to the camcorder again before turning it on.

Menu

<table>
<tr><th>Symptom</th><th>Explanation/Solution</th></tr>
<tr><td>Menu items are grayed out.</td><td>

- You cannot select grayed items in the current recording/playback mode.
- Most of menu items cannot be selected when you set the **EASY Q** function.
- If there is no storage media inserted, it can not be selected and will be dimmed on the menu : **"Storage", "Storage Info", "Format"**, etc.
- There are some functions you cannot activate simultaneously. The following list shows examples of unworkable combinations of functions and menu items.
If you want to set the desired functions, do not set the following items first.

<table>
<tr><th><Cannot Use></th><th><Because of the following setting></th></tr>
<tr><td>"C.Nite", "Digital Zoom",
"Digital Effect : Mirror"
"Digital Effect : Mosaic"
"Digital Effect : Stepprinting"</td><td>"Anti-Shake (HDIS)"</td></tr>
<tr><td>"Digital Zoom", "Exposure : Manual",
"Shutter : Manual",
"Focus : Face Detection",
"Back Light", "iSCENE : Manual"
"Digital Effect : Mirror",
"Digital Effect : Mosaic",
"Digital Effect : Stepprinting"</td><td>"C.Nite"</td></tr>
<tr><td>"C.Nite", "Focus : Face Detection"</td><td>"iSCENE"</td></tr>
<tr><td>"Focus : Face Detection"</td><td>"Digital Effect"</td></tr>
<tr><td>"Focus : Face Detection",
"Digital Zoom"</td><td>"Digital Effect : Mirror",
"Digital Effect : Mosaic",
"Digital Effect : Stepprinting"</td></tr>
<tr><td>"Digital Effect : Mirror",
"Digital Effect : Mosaic",
"Digital Effect : Stepprinting"</td><td>"16:9 Wide"</td></tr>
<tr><td>"Fader"</td><td>"Time Lapse REC"</td></tr>
<tr><td>"Focus : Face Detection"</td><td>"Exposure : Manual", "Shutter : Manual"</td></tr>
</table>

</td></tr>
</table>

specifications

Model Name: SMX-F30(0)BP/F30(0)LP/F30(0)RP/F30(0)SP&SMX-F33(2)BP/F33(2)LP/F33(2)RP/F33(2)SP&SMX-F34(0)BP/F34(0)LP/F34(0)RP/F34(0)SP

System	
Video signal	PAL
Picture compression format	H.264/AVC Format
Audio compression format	AAC (Advanced Audio Coding)
Recording resolution	TV Super Fine (about 5.0Mbps), TV Fine (about 4.0Mbps), TV Normal (about 3.0Mbps), Web & Mobile (about 2.0Mbps)
Image device	CCD (Charge Coupled Device) (Max/Effective : 800K/540K pixels)
Lens	F1.6 to 4.3, 34x (Optical), 42x (Intelligent)1200x (Digital) Electronic zoom lens
Focal Length	2.3~96.6mm
Minimum Illumination	3.0 Lux
Filter diameter	Ø30.5
LCD screen	
Size/dot number	2.7 inches wide, 112k
LCD screen method	1.6" interlaced scan, LCD panel / TFT active matrix system
Connectors	
Composite video out	1.0V (p_p), 75Ω, analog
Audio output	(-7.5dBm 47KΩ, analog, stereo)
USB output	mini USB-B type (USB2.0 High Speed)
General	
Power source	8.4V (Using AC adaptor), 7.4V (Using Lithium Ion battery pack)
Power source type	Power supply (100V~240V) 50/60Hz, Lithium Ion battery pack
Power consumption	2.0W (LCD on)
Operating temperature	0°~40°C (32°F~104°F)
Operating humidity	10% ~80%
Storage temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Dimensions (W x H x D)	Approx. 60.5mm x 60mm x 125mm (2.38" x 2.36" x 4.92")
Weight	Approx. 280g (0.61lbs) (expect for battery pack or memory card)
Internal MIC	Omni-directional stereo microphone

- These technical specifications and design may be changed without notice.

Power Sources (United Kingdom Only)

The mains lead on the power adapter is supplied with a moulded plug incorporating a fuse.
The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS1362 of the same rating must be used.
Never use the plug with the fuse cover omitted if the cover is detachable.
If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug.
Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.
However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug.
Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.
IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE = NEUTRAL BROWN = LIVE
As these colours may not correspond to the coloured marqueings identifying the terminals in your plug, proceed as follows:
The wire coloured BLUE must be connected to the terminal marqueed with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marqueed with the letter L or coloured BROWN or RED.

WARNING
Do not connect either wire to the earth terminal marqueed with the letter E or the earth symbol, ⏚ , or coloured GREEN or GREEN and YELLOW.

This page is applicable to Great Britain only

contact SAMSUNG world wide

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Region	Country	Contact Centre ☎	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com/us
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421, 4004-0000	www.samsung.com/br
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	www.samsung.com/latin
	HONDURAS	800-7919267	www.samsung.com/latin
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	02 201 2418	www.samsung.com/be (Dutch) www.samsung.com/be_fr (French)
	CZECH REPUBLIC	800-SAMSUNG(800-726786)	www.samsung.com/cz
	DENMARK	8-SAMSUNG(7267864)	www.samsung.com/dk
	FINLAND	30-6227 515	www.samsung.com/fi
	FRANCE	01 4863 0000	www.samsung.com/fr
	GERMANY	01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.de
	HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com/hu
	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com/it
	LUXEMBURG	02 261 03 710	www.samsung.com/lu
	NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com/nl
	NORWAY	3-SAMSUNG(7267864)	www.samsung.com/no
	POLAND	0 801 1SAMSUNG(172678), 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902-1-SAMSUNG (902 172 678)	www.samsung.com/es
	SWEDEN	075-SAMSUNG(726 78 64)	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0810-SAMSUNG(7267864, € 0.07/min)	www.samsung.com/at
	SWITZERLAND	0848-SAMSUNG(7267864, CHF 0.08/min)	www.samsung.com/ch
	Latvijas Republika	Bezmaksas informatīvasi tālrunis 80007267	www.samsung.lv
	Lietuvas Respublika	Informacines linijos telefonas 880077777	www.samsung.lt
	Essti Vaabarik	+372 8007267	www.samsung.ee
CIS	RUSSIA	8-800-555-55-55	www.samsung.ru
	KAZAKHSTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	KYRGYZSTAN	00-800-500-55-500	
	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.ua
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com/au
	NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
	CHINA	800-810-5858, 400-810-5858, 010-6475 1880	www.samsung.com/cn
	HONG KONG	3698-4698	www.samsung.com/hk
	INDIA	3030 8282, 1800 110011, 1-800-3000-8282	www.samsung.com/in
	INDONESIA	0800-112-8888	www.samsung.com/id
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Our product complies with “The Restriction Of the use of certain Hazardous Substances in electrical and electronic equipment”, and we do not use the 6 hazardous materials- Cadmium(Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr +6), Poly Brominated Biphenyls (PBBs), Poly Brominated Diphenyl Ethers(PBDEs)- in our products.